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NINETEENTH ANNUAL REPORT

OF THE

DEPARTMENT OF LANDS AND FORESTS

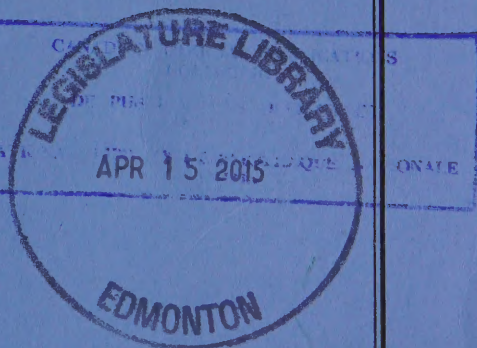
OF THE

PROVINCE OF ALBERTA

FOR THE

FISCAL YEAR ENDED MARCH 31st

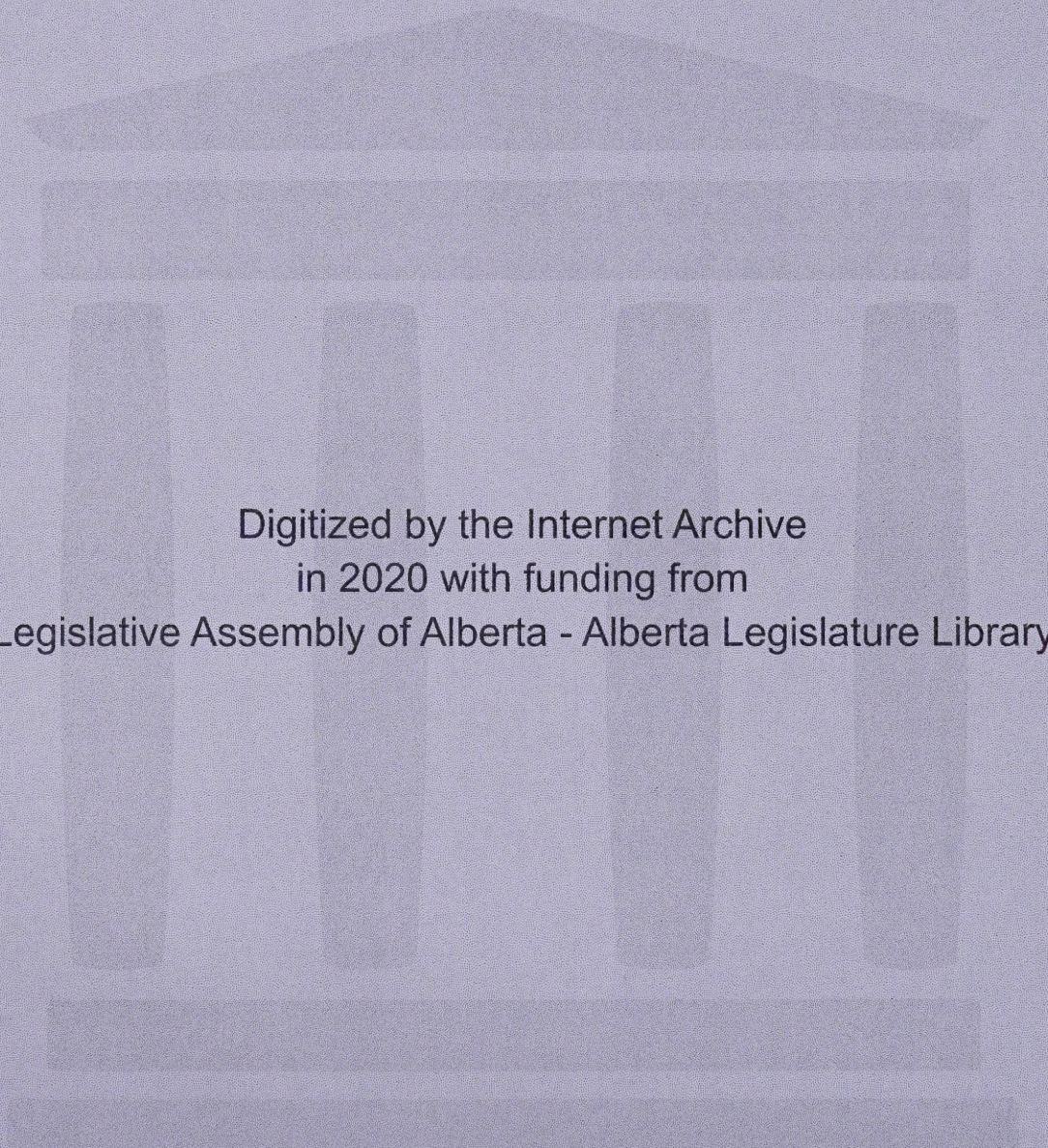
1968



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1968



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NINETEENTH ANNUAL REPORT

OF THE
DEPARTMENT OF LANDS AND FORESTS
OF THE
PROVINCE OF ALBERTA

FOR THE
FISCAL YEAR ENDED MARCH 31st
1968



EDMONTON:
PRINTED BY L.S. WALL, QUEEN'S PRINTER
1968

TO THE HONOURABLE GRANT MacEWAN
Lieutenant-Governor of the Province of Alberta

SIR:

I have the honour to submit the Report of the Department of Lands and Forests for the fiscal year ended March 31st, 1968.

I have the honour, to be, Sir,

Your obedient servant,

HENRY A. RUSTE,

Minister of Lands and Forests

Edmonton, December 15th, 1968.

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DEPARTMENT OF LANDS AND FORESTS

Hon. Henry A. Ruste	Minister of Lands and Forests
Dr. V. A. Wood	Deputy Minister of Lands and Forests
F.F. Pawlowski	Departmental Solicitor
D.S. Lawson	Director of Lands
R.G. Steele	Director of Forestry
R.D. Loomis	Adm. of Forest Management
S.R. Hughes	Adm. of Forest Protection
J. F. Hogan	Adm. of Forest Surveys
E.P. Shaver	Director of Provincial Parks
C.R. Harvie	Provincial Parks Planner
Dr. S. B. Smith	Director of Fish and Wildlife
W.C. Hales	Fish and Wildlife Administrator
M. J. Paetz	Chief Fishery Biologist
G.K. Kerr	Chief Wildlife Biologist
T.A. Drinkwater	Director, Technical Division
A. McCallum	Administrative Accountant
C.B. Kenway	Registrar
W.A. West	Publicity Officer
R.J. Clark	Personnel Officer

EASTERN ROCKIES FOREST CONSERVATION BOARD

J.R.H. Hall	Chairman
A.T. Baker	Member

REPORT
of the
DEPARTMENT OF LANDS AND FORESTS
1967 - 1968

HONOURABLE HENRY A. RUSTE,
Minister of Lands and Forests.

SIR:

I have the honour to submit the annual report of the Department of Lands and Forests for the fiscal year ending March 31st, 1968.

Respectfully submitted,

V.A. WOOD,

Deputy Minister.

Edmonton, December 15th, 1968.

PUBLIC LAND ADMINISTRATION**REPORT OF THE DIRECTOR OF LANDS**
D.S. LAWSON

The Lands Division of the Department of Lands and Forests recorded a very high level of activity during the past fiscal year. There have also been several major changes in policy relating to the agricultural use of suitable public lands.

With the acceptance of the principle of farm adjustment and enlargement, modifications of policy have had to be made. In Census Division 14, a viable farm adjustment program was under way during this fiscal year. The objective of this program is to encourage farm consolidation and enlargement and in accomplishing this objective certain uneconomic farms are purchased and these farms which are acquired, together with the available public land in the area, are utilized to enlarge and consolidate other farms in the area. So that our policy would not oppose the general objectives of this program, homesteading and the sale of public lands by auction in Census Division 14 was discontinued in 1967.

Farm adjustment programs similar to the one presently under way in Census Division 14 will ultimately extend to Census Division 12 and into the Peace River area. To insure that this division would not be creating problems which would ultimately have to be rectified by the various farm adjustment committees the policy which I reported to you last year has now been implemented. Commencing in the early summer of 1967, the method of posting lands available for disposition under homestead sale was changed to grant persons owning farm lands comprising at least 80 acres, 30 days priority to apply for the public land. It is the consensus of opinion that this policy has operated successfully in assisting established farmers to increase the size of their holdings and to create for them a potentially economic unit.

In July, 1967, parts of Twp. 110, Rges. 15, 17 and 18, W. 5th Mer., comprising 39,600 acres, were posted available for homestead sale under the procedure mentioned above.

HOMESTEAD SALES

During 1967, the division adopted a new policy in that cultivation on cancelled homestead leases and sales was recognized as an improvement. This new policy permits the former homesteader to receive reimbursement of the inspector's valuation of cultivation created at his own expense and recognizes to a degree the equity which he has created.

The number of homestead sale applications received was slightly higher than the previous year. There was also a considerable increase in applications for notification resulting in the issuance of 557 titles during the fiscal year. There was also a considerable increase in the number of homestead lease loan applications received with the result that the funds provided by the Homestead Lease Loan Act were fully committed. It was impossible to obtain additional monies to supplement the homestead lease loan fund and consequently in March, 1968, it was necessary to discontinue the acceptance of homestead lease loan applications.

SALES, CULTIVATION LEASES AND SAND AND GRAVEL

During the fiscal year a total of 83 parcels of land were offered for sale by public auction of which 79 were sold, with the highest price being \$120.00 per acre for a full quarter section cultivated, in the Vulcan area. The average price per acre received at auction sales was \$25.00, an increase of almost \$8.00 per acre over the previous fiscal year.

During the year the administration and control of 37 parcels of land was turned over to the Department of Municipal Affairs, 3 parcels to the St. Mary and Milk Rivers Development and 1 parcel to the Department of Public Works. The section processed exchanges involving 20 parcels of Crown land and made free grants of 6 parcels of land.

During the year this section became very involved in the ARDA program in so far as it concerns farm consolidation and enlargement with one staff member attending the Farm Adjustment Committee meetings, at Edson, during the last half of this year.

The following indicates money collected during the year from public land and agricultural farm sales:

New Sales	Principal	Interest
P.L. Agricultural Farm Sales	\$ 117,937.51	\$ 1,210.01
T.R. Agricultural Farm Sales	Nil	Nil
Public Land Sales	\$ 194,088.70	\$ 6,467.25

It will be noted that there were no collections in connection with new tax recovery agricultural farm sales because of the practice now being followed whereby tax recovery lands are either returned to the local taxing authorities who dispose of the land or the lands are purchased back for conservation reasons by the department and dealt with as public lands.

During the year, under the terms of The Crown Cultivation Leases Act, the department paid out on account of taxes the sum of \$83,359.63. The total assessed value of the land under cultivation lease exclusive of the clearing project area is \$1,272,550.00.

The demand for sand and gravel from public land remained high as both the government and private industry sectors required large quantities of material for construction. A large proportion of the demand is generated by development of the natural resources in the more sparsely settled areas of the province.

SPECIAL LAND USE SECTION

This section was very active during the past fiscal year in the issuance of rights to the petroleum and natural gas industry, for purposes of petroleum and natural gas production and transportation.

In the North Zama Field in northwestern Alberta, it was found desirable to consolidate campsite development to a common area and a sub-division named

"North Zama" was developed by the department. The operating and service companies were extremely co-operative in the development of the campsite and formed a committee to assist the various government departments concerned to insure development of high quality. Meetings were held with various government departments concerned and a directive to the industry was formulated. It is felt that campsites of this nature would be more desirable than the creation of new towns to serve the exploratory stages of oil development.

No new recreational cottage subdivisions were established during the past fiscal year. However, numerous lots in existing subdivisions were readvertised as they became vacant.

GRAZING

The demand for grazing on public lands continued in 1967.

The open grassland areas of Alberta are fully utilized and therefore the wooded areas of Alberta provide the only new grazing available. To encourage the development and improvement of these wooded areas, the Grazing Lease Improvement Regulations authorize financial assistance for grazing lessees wishing to convert brush covered public lands to improved pasture. Forty-seven applications for such assistance were received during the past fiscal year.

Grazing conditions in 1967 ranged from good in Southern Alberta to poor in the north. South of Calgary, grazing conditions were good, primarily as a result of plentiful spring moisture from heavy snow storms. These storms caused high calf losses in the Lethbridge area. Some deterioration took place toward fall and moisture reserves were low at the end of the year. In the triangle between Edmonton, Lloydminster and west of Calgary, grazing conditions were fair to good with deterioration towards fall. Most of the balance of the province to the north experienced poor to fair grazing conditions because of the dry season.

The range survey initiated, in 1965, continued in Southern Alberta. Several Southern Alberta community pastures were surveyed as well as a number of farm and ranch units north of Medicine Hat. The object of the survey is to determine the grazing capacity of individual ranch units with a higher degree of accuracy.

Members of the grazing field staff assisted various members of the division's Appraisal Section in the identification of native plants and in the determination of grazing capacity.

Mounted specimens of over 500 species of range plants and plants of agricultural significance were filed in the department's herbarium. The herbarium was established to assist staff of all divisions of the department in the identification of the more important range plants.

A program of requesting grazing lessees who hold more than one lease in their name to consolidate their leases was continued during the year. The result was a cancellation of a considerable number of grazing leases for amalgamation purposes.

During 1967 a program was initiated for the conversion of grazing permits to long term grazing leases where the land under permit is found to be only suit-

able for grazing purposes and where the grazing permittee has held the permit area for three years or longer and is a full time farmer eligible to acquire a lease.

Twelve Letters of Authority for the rounding up of wild horses were in effect, in 1967. Four of these letters were issued in 1967. Approximately 92 horses were rounded up between April 1, 1967, and March 31, 1968, under these Letters of Authority.

For 1967 the grazing rental and taxes for grazing leases, grazing permits and road allowance leases were calculated on the same basis as 1966, using the percentages of forage values as fixed by Order-in-Council 1655/62. These percentages are 20 percent for the South Grazing District, 16 2/3 percent for the Central Grazing District and 12 1/2 percent for the North Grazing District.

The formula for determining the forage value of an acre held under one of these three dispositions is as follows:

$$\frac{250 \times P}{cc}$$

where 250 represents the estimated gain expressed in pounds of beef, P represents the average price of beef and cc represents the carrying capacity expressed in the number of acres required to graze one animal unit (a 1,000 pound cow with calf under 6 months of age or their equivalent) for the year.

The average price of beef for the six month period of 1966 was 22.23 cents per pound compared with 17.46 cents per pound for the same period in 1965. The combined rental and tax charges for 1967 for grazing leases and road allowance leases for the period from January 1 to December 31, 1967, and on grazing permits from the period from April 1, 1967, to March 31, 1968, were determined by multiplying the forage value by the appropriate percentage and were as follows:

PER ACRE FOR CALENDAR YEAR 1967

Carrying Capacity	Southern District 20%	Central District 16 2/3%	Northern District 12 1/2%
24	46¼¢	38¾¢	29¢
32	34¾¢	29¢	21¾¢
40	27¼¢	23¼¢	17½¢
50	22¼¢	18½¢	14¢
60	18¾¢	15½¢	11½¢

1967 HEAD TAX GRAZING RENTAL

For 1967 the Head Tax Grazing Rental was established as follows:

Grazing District A - 95¢ per animal unit per month

Grazing District B - 75¢ per animal unit per month

Grazing District C - 60¢ per animal unit per month

GRAZING RESERVES

Grazing rental on a per head basis for 1967 was set as follows:

Irrigated Grazing Reserves (4)	\$3.20 per A.U.M.*
Pinhorn Grazing Reserve	\$2.50 per A.U.M.
Twin River Grazing Reserve	\$2.40 per A.U.M.
Buck Mountain, Minburn and Rannach Grazing Reserves	\$2.15 per A.U.M.
Wanham and Whitemud Grazing Reserves	\$2.00 per A.U.M.

*A.U.M. - animal unit month or per month per animal unit

GRAZING RESERVES

Dry Land	Map	Acreage	Patrons	A.U.M.'s Allotted
1. Buck Mountain	9R	16,982.08	44	4,362
2. Pinhorn (near Etzikom)	3R	76,358.5	110	10,810
3. Minburn	5R	13,527.44	82	6,004
4. Rannach	6R	13,832.37	81	5,012
5. Twin River	1R	30,869.93	70	8,525
6. Wanham	7R	15,241.5	51	3,938
7. Whitemud	11R	22,165.85	12	1,330
Totals -		188,977.67	450	39,981
Irrigated				
1. Bow Island	8R	25,020.59	75	8,071
2. Grassy Lake	10R	2,711.54 (used with Purple Springs)		
3. Purple Springs	2R	1,890.03	69	6,214
4. Seven Persons	4R	6,174.06	42	3,219
Totals -		35,796.22	186	17,504
Combined Total -		224,773.89	636	57,485

GRAZING RESERVES UNDER DEVELOPMENT

Name	Location
Kleskun Lake	Twp. 73, Rge. 4, W. 6th Mer.
St. Paul	Twps. 55 & 56, Rges. 9 & 10, W. 4th Mer.
Stony Plain	Twps. 51, 52 & 53, Rge. 6, W. 5th Mer.
Thorhild	Twps. 62 & 63, Rges. 18 & 19, W. 4th Mer.
Whitemud	Twp. 87, Rges. 1 & 2, W. 6th Mer.

PROPOSED GRAZING RESERVES - (Dry Land)

Name	Location
Barrhead - Lac Ste. Anne	Twps. 59 & 60, Rges. 7 & 8, W. 5th Mer.
Cardinal Lake	Twp. 84, Rges. 25 & 26, W. 5th Mer., Rge. 1, W. 6
Goodfare	Twps. 71 & 72, Rge. 13, W. 6th Mer.
Harmon Valley	Twps. 81 & 82, Rges. 17 & 18, W. 5th Mer.
Medicine Lake	Twps. 43 & 44, Rges. 5 & 6, W. 5th Mer.
Moose Wallow	Twp. 61, Rges. 6 & 7, W. 5th Mer.
Smoky Lake	Twps. 60 & 61, Rges. 6 & 7, W. 5th Mer.
Westlock (Black Bear)	Twps. 63 & 64, Rges. 25 & 26, W. 4th Mer.
Wetaskiwin	Twp. 45, Rges. 3, 4, 5 & 6, W. 5th Mer.
Wolf Creek	Twps. 65 & 66, Rges. 4, 5, 6, 7 & 8, W. 4th Mer.

PROPOSED GRAZING RESERVES - (Irrigated)

Name	Location
B.R.D. North	Twps. 17 & 18, Rge. 18, W. 4th Mer.
B.R.D. East	Twps. 16 & 17, Rges. 17 & 18, W. 4th Mer.

Where no facilities were provided by the department, grazing rental on a head tax basis was set as follows for 1967:

Grazing District "A" (South) - 95¢ per month, per animal unit

Grazing District "B" (Central) - 75¢ per month, per animal unit

Grazing District "C" (North) - 60¢ per month, per animal unit

During 1967, the Vauxhall area was grazed by allotment holders, providing grazing for approximately 6,000 head of stock. Special arrangements are made with the Federal Government in this area.

In the Wainwright area on land leased by the Department of National Defence, the Buffalo Park, South Park and Hughenden Grazing Group graze lands and cut hay. During the 1967 season, 1,027 tons of hay were cut by 17 patrons. There were 2,841 head of stock grazed, belonging to 45 patrons.

HEAD TAX GRAZING AREAS

	Map	Location
1. East Burnstick	1	Twp. 34, Rge. 6, W. 5th Mer.
2. Horse Lakes Grazing Association	2	Twps. 75 & 76, Rge. 16, W. 5th Mer.
3. North Burnstick	1	Twps. 35 & 36, Rges. 6 & 7, W. 5th Mer.
4. Northeast Burnstick	1	Twp. 35, Rge. 6, W. 5th Mer.
5. Northwest Burnstick	1	Twp. 35, Rge. 7, W. 5th Mer.
6. Southwest Burnstick	1	Twp. 34, Rge. 7, W. 5th Mer.
7. South Cow Creek	3	Twp. 38, Rges. 8 & 9, W. 5th Mer.
8. West Burnstick	1	Used with Southwest Burnstick
9. West End Stock Association	4	Twps. 31 & 32, Rges. 6 & 7, W. 5th Mer.

Administration of the development program for grazing reserves was transferred on April 1st, 1967, from the Department of Agriculture to the Department of Lands and Forests.

During the summer season of 1967 tenders were called and work was carried out on reserves as follows: totalling approximately \$30,000.00.

Rannach Grazing Reserve -

Discing, floating & seeding	800 acres
-----------------------------	-----------

Stony Plain Grazing Reserve -

Discing, floating & seeding	1200 acres
-----------------------------	------------

Fencing	10 miles
---------	----------

Wanham Grazing Reserve -

Breaking, working down & seeding	900 acres
----------------------------------	-----------

Whitemud Grazing Reserve -

Cultivating & seeding	400 acres
-----------------------	-----------

Total Improved Acreage	3300 acres	3300 acres
------------------------	------------	------------

Winter work contracts consisting of clearing and piling brush, amounted to approximately \$66,000.00 in costs, were called as follows:

Buck Mountain Grazing Reserve -

Contract #1 833 acres

Contract #2 300 acres

Total 1133 acres

Kleskun Lake Grazing Reserve -

Contract #1 650 acres

Minburn Grazing Reserve -

Contract #1 2060 acres

Contract #2 620 acres

Total 2680 acres

Rannach Grazing Reserve -

Contract #1 2562 acres

Contract #2 1030 acres

Total 3592 acres

Fencing 4 miles

St. Paul Grazing Reserve -

Contract #1 878 acres

Contract #2 300 acres

Total 1178 acres

Stony Plain Grazing Reserve -

Contract #1 1400 acres

Contract #2 900 acres

Total 2340 acres

Thorhild Grazing Reserve -

Contract #1 900 acres

Wanham Grazing Reserve -

Contract #1 876 acres

Contract #2 320 acres

Total 1196 acres

Whitemud Grazing Reserve -

Contract #1

856 acres

Total Cleared Acreage - 14,525 acres

Total Acreage Improved - 17,825 acres

GRAZING ASSOCIATION LEASES

Association	Map Location	Acreage	No. of Members	Head of Stock
1. Barnwell Grazing Assoc.	63	3,142.44	38	282
2. Basin Valley Grazing Assoc.	74	1,713.56	10	291
3. Bear Canyon Grazing Assoc.	35	1,433.5	3	34
4. Beaver Valley Grazing Assoc.	67	2,979.86	8	187
5. Big 4 Lease Assoc.	14	3,035.	6	261
6. Blackfoot Grazing Assoc.	28	24,550.89	58	1309
7. Blue Field Grazing Assoc.	6	11,726.14	14	575
8. Boon Creek Cattle Assoc.	82	7,149.62	7	202
9. Boundary Creek Grazing Assoc.	3	636.84	8	114
10. Bow Island-Forty Mile Grazing Assoc.	9	28,967.43	43	1083
11. B.T. Grazing Co-operative Ltd.	17	26,234.99	37	900
12. Bunker Hill Grazing Assoc.	75	6,397.19	5	279
13. Burkes Lake Stockmans Assoc.	32	3,622.	13	350
14. Butcher Creek Grazing Co-op Ltd.	60	1,432.41	10	220
15. Campbell Creek Grazing Assoc.	53	7,679.5	6	137
16. Carcajou Grazing Assoc.	48	2,110.9	5	
17. Castle River Stock Assoc.	27	6,159.192	9	303
18. Chauvin District Grazing Assoc.	21	1,113.	11	223
19. Clear Hills Community Grazing Assoc.	55	8,877.4	17	555
20. Clear River Grazing Assoc.	44	3,491.60	5	59

Association	Map Location	Acreage	No. of Members	Head of Stock
21. Clearwater Cattle Society	64	3,123.8	7	38
22. Comrey Grazing Co-operative Ltd.	1	29,953.68	20	1150
23. Cressday Grazing Assoc.	80	12,032.66	9	543
24. Cresthill Farmers Community Cattle Grazing Lease	19	14,432.04	9	651
25. Deimuth Lease Assoc.	8	1,716.08	5	90
26. Drowning Ford Grazing Assoc.	25	33,069.5	59	1749
27. Dunn Lake Cattle Assoc.	20	3,446.09	14	260
28. Eastern Irrigation District	31	4,879.89	5	281
29. East Peoria Smoky Grazing Assoc.	56	9,134.9	9	233
30. Elk Island Grazing Assoc.	34	1,936.39	6	87
31. Fincastle Grazing Assoc.	71	772.04	25	275
32. Fir Grove Stock Assoc.	5	4,342.677	6	302
33. Four Mile Creek Stock Improvement Assoc.	43	20,622.15	13	558
34. Frog Lake Cattle Assoc.	42	10,288.57	9	800
35. Garnier Lake Grazing Assoc.	58	17,842.3	10	464
36. Goodfare Grazing Assoc.	76	6,663.3	13	366
37. Green Prairie Grazing Group	13	2,875.	4	122
38. Hays Stock Grazing Assoc.	37	15,458.804	23	623
39. Highland Grazing Assoc.	11	8,222.25	10	228
40. Island Lake Grazing Assoc.	47	5,760.19	5	400
41. Jake's Butte Grazing Assoc.	78	3,983.	17	346
42. Jumping Pound Stock Assoc.	15	12,744.19	8	1145
43. Keg River Community Livestock Improvement Assoc.	41	1,550.	5	117
44. Lakes Grazing Assoc.	18	1,906.76	6	238
45. Lekenwa Cliff Grazing Assoc.	52	1,598.00	5	116

Association	Map Location	Acreage	No. of Members	Head of Stock
46. Little Bow Grazing Assoc.	30	4,337.10	9	370
47. Little Smoky Grazing Assoc.	39	11,086.10	8	413
48. Lobley Grazing Assoc.	62	5,033.5	5	193
49. Lomond Grazing Assoc.	24	82,151.46	174	4933
50. Long Valley Grazing Assoc.	36	4,349.7	6	193
51. Lucky Lake Grazing Assoc.	33	5,595.50	5	200
52. Many Island Lake Grazing Assoc.	10	17,565.28	34	1012
53. Milk River Co-op Grazing Assoc. Ltd.	50	12,643.92	25	905
54. Nemiscam Community Pasture Organization #1	7	4,780.6	22	260
55. Nemiscam Community Pasture Organization #2	45	33,951.39	42	1263
56. North Eaglesham Grazing Assoc.	49	2,889.	6	179
57. North Goodwin Stock Improvement Assoc.	72	12,913.8	14	558
58. North Group Cattle Assoc.	22	10,571.42	8	794
59. North Wapiti Stock Improvement Assoc.	69	5,996.74	4	111
60. Old Frontier Grazing Assoc.	54	10,207.35	13	1829
61. Peace River Grazing Assoc.	59	8,380.30	4	-
62. Peace Valley Stockmans Assoc.	79	7,502.8	5	200
63. Pipeline Grazing Assoc.	23	30,332.38	20	1038
64. Poll Haven Community Pasture	4	10,462.2	43	814
65. Rainy Hills Grazing Co-op Ltd.	12	19,184.24	19	651
66. Ross Lake Community Pasture Assoc.	2	4,473.	26	441
67. Round Up Ranch Co-op Ltd.	51	1,916.1	10	-
68. Rowley Grazing Assoc.	61	7,985.	35	645
69. Silver Valley Grazing Assoc.	46	3,368.7	6	125
70. Simonette Grazing Assoc.	77	3,058.	6	95
71. Smoky Lake Grazing Assoc.	68	11,362.98	11	252

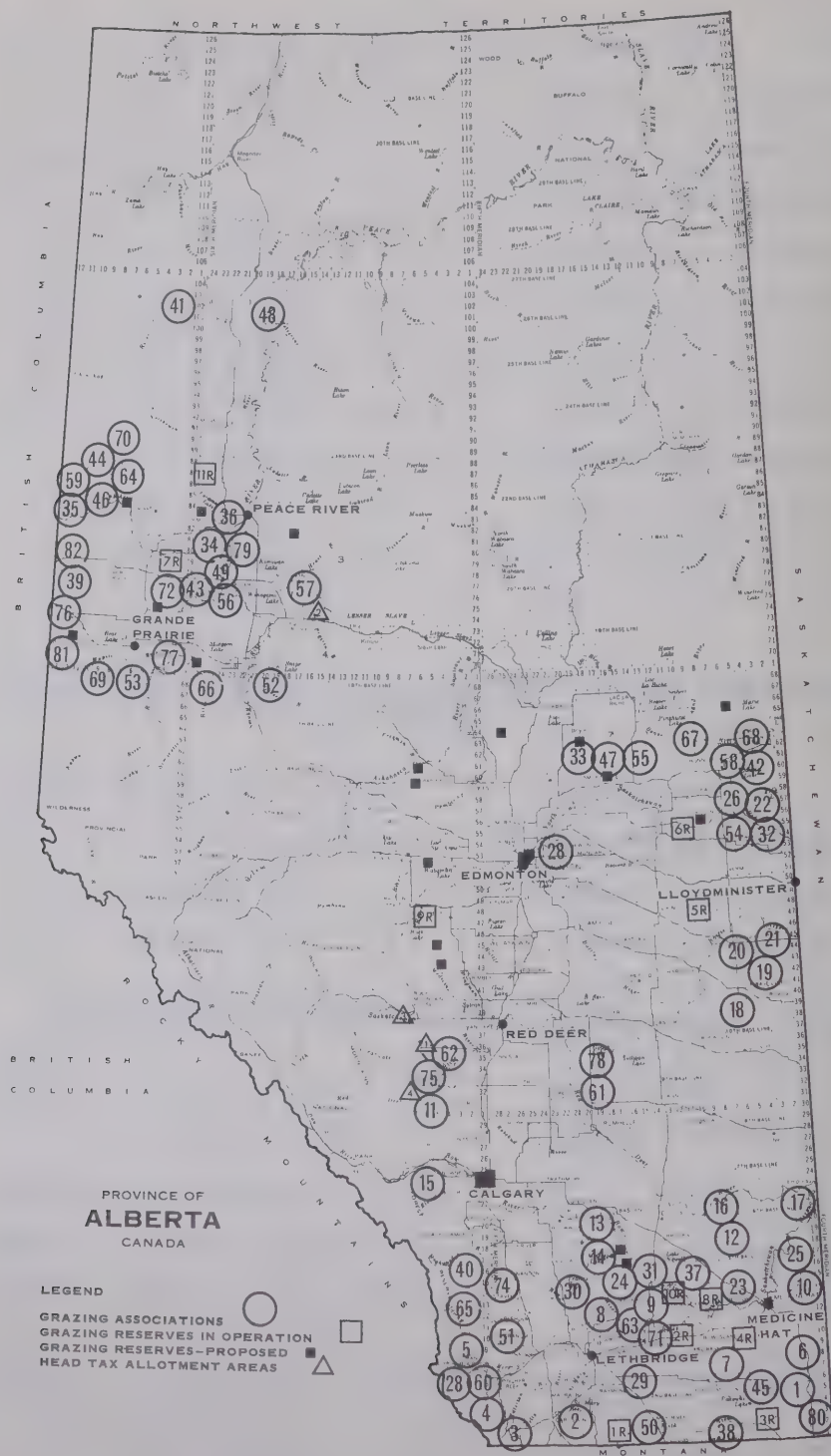
Association	Map Location	Acreage	No. of Members	Head of Stock
72. Spring Creek Grazing Assoc.	66	6,366.1	6	352
73. Spruce Ranching Co-operative	40	19,138.17	27	2280
74. Stirling Pasture Company Ltd.	29	747.	17	129
75. Tide Lake Grazing Assoc.	16	15,990.97	13	447
76. Tulliby Lake Stockmans Assoc.	26	16,748.6	37	1565
77. Waldron Grazing Co-operative Ltd.	65	15,581.58	95	5527
78. Winagami Grazing Assoc.	57	3,996.	8	247
79. Windsor Creek Grazing Assoc.	81	6,665.80	5	-
80. Wolf Creek Grazing Assoc.	70	6,809.6	5	-
81. Writing On Stone Grazing Assoc.	38	15,390.05	40	785
Totals		820,340.153	1428	47,352

ASSOCIATIONS HOLDING ADDITIONAL LAND UNDER ANNUAL GRAZING PERMIT

Association	Map Location	Acreage	No. of Members
1. Boundary Creek Grazing Assoc.	3	191.5	8
2. Lomond Grazing Assoc.	24	2,814.09	174
3. Simonette Grazing Assoc.	77	322.	6

ASSOCIATIONS HOLDING GRAZING PERMITS IN THE VAUXHALL AREA

Association	Location	Acreage
1. East Hays Group Community Pasture	13 & 14 - 12 & 13 - W4th	2,084.
2. Hays Stock Grazing Assoc.	11, 12 & 13 - 12 & 13 - W4th	27,227.
3. Riverbend Grazing Assoc.	12 & 13 - 12 & 13 - W4th	2,663.
4. Vauxhall Grazing Assoc.	11, 12, 13 & 14 - 14, 15 & 16 - W4th	57,010.
5. West Group Hays Community Pasture	13 & 14 - 13 & 14 - W4th	1,676.



FIELD INSPECTIONS

The level of staff for most of the inspection's season was maintained at 21 permanently employed appraisers and 4 temporarily employed appraisers. Difficulty in filling staff vacancies was experienced due to the acute shortage of qualified applicants. One additional Supervisory District Office was opened at Wainwright.

(1,093) general inspections, 3,103 (- 407) soil inspections and 357 (- 162) collections were completed. The increase or decrease from the previous year is shown in brackets.

Work on a co-operative basis with the Farm Adjustment and Land Development Programs in Census Division 14 is continuing at a steady pace. In Census Division 14, 24 units (44 parcels) were appraised under the Farm Adjustment Program and 29 units (66 parcels) under the Land Development Program.

In assessing the whole process of land settlement, the appraisal staff and in particular those working in central and northern areas, is becoming increasingly aware that a modification of homesteading as many still remember it, is inevitable. It is increasingly difficult to develop farms with little in the way of capital resources. While there have always been failures in the development of a viable farming enterprise, the failures of today appear to be more costly both to the individual and to the community. The extension service provided in the form of advice and information by appraisal staff to settlers and prospective settlers has done much to ease the burden of becoming full time farmers. It is expected that under the expanding Farm Adjustment and Development Programs, the appraiser will have greater opportunity to counsel and advise settlers and thus assist in the establishment of a more efficient and productive agricultural community.

LAND CLASSIFICATION

A high interest in public land by all resource administrators has intensified and increased the work load in this section and consequently, L.S. Yule was named Assistant Land Use Specialist in April of 1967.

Activity under the Land Classification Project, in co-operation with Forest Surveys, included interviews and a revision of the classification of lands in the Rocky Mountain House and Whitecourt areas. As noted in our annual report ending March 31, 1967, it is apparent that land classification necessitates more thorough and detailed work than originally contemplated. It was found that to successfully bring a zoning project to completion, considerable public relations work must be carried out.

Preliminary land classification was carried out on an area adjacent to Lac La Biche and it is hoped that this will be completed during 1968. The Rose Creek - Medicine Lake area will also be given priority for finalization.

Townships 82 and 83, Range 7, West 6th Meridian, were inspected for proposed legal survey. Also inspected were areas around Little Buffalo, Lubicon Lake and Loon Lake for a proposed grazing development under ARDA and for agricultural potential.

During the fiscal year more emphasis was placed on multiple uses and conservation principles to promote best land use. Consequently, a policy of entering into Water Course Agreements covering small streams on public lands disposed of under a permanent disposition was implemented and under this program the purchaser covenants that he will not destroy the vegetative cover adjacent to the stream bank. The adoption of this program will prevent destruction of wildlife habitat and retard erosion and stream siltation. This has involved considerable work in co-ordinating policy and examining many files and aerial photographs. Recommendations for the purchase of numerous tax recovery and other lands required under the Land Assembly Program were made.

Assistance in land use and soils was given to the selection and outlining of Grazing Associations and Reserves.

Two short field trips were made to examine the use of organic soils to assist in updating our policies.

In addition to the above work, a large number of special cases relating to land use were reviewed which involved the use of aerial photographs, soil survey reports and other available information.

STATISTICS - PUBLIC LAND

	April 1, 1967 to March 31, 1968	
	No.	Area
HOMESTEAD LEASES - CIVILIAN		
Leases in force at April 1, 1967	2348	602,979.17
Leases reinstated during fiscal year	5	1,451.56
Leases patented during fiscal year	210	51,881.73
Leases cancelled during fiscal year	301	79,869.38
Leases in force at March 31, 1968	1842	472,679.62
HOMESTEAD LEASES - VETERAN		
Leases in force at April 1, 1967	252	70,354.23
Leases issued during fiscal year	0	0
Leases patented during fiscal year	31	8,842.89
Leases cancelled during fiscal year	23	5,885.80
Leases in force at March 31, 1968	198	55,625.54

	No.	Area
HOMESTEAD SALES - CIVILIAN		
Sales in force at April 1, 1967	4061	1,075,329.61
Sales granted during fiscal year	992	281,735.58
Sales patented during fiscal year	258	66,775.63
Sales cancelled during fiscal year	418	119,886.01
Sales in force at March 31, 1968	4377	1,170,403.55
HOMESTEAD SALES - VETERAN		
Sales in force at April 1, 1967	138	39,960.61
Sales granted during fiscal year	32	9,553.47
Sales patented during fiscal year	12	3,192.80
Sales cancelled during fiscal year	13	3,964.56
Sales in force at March 31, 1968	145	42,356.72
HOMESTEAD LOANS		
Contracts in force at April 1, 1967	1107	
Contracts issued during fiscal year	307	
Contracts cancelled during fiscal year	14	
Contracts paid in full during fiscal year	180	
Contracts in force at March 31, 1968	1220	
HOMESTEAD LOAN SALES		
Sales in force at April 1, 1967	104	27,171.70
Sales granted during fiscal year	24	6,219.68
Sales patented during fiscal year	46	12,686.33
Sales cancelled during fiscal year	0	0
Sales in force at March 31, 1968	82	20,705.05
CROP SHARE LEASES - CLEARING PROJECT		
Leases in force at April 1, 1967	2	635.94
Leases issued during fiscal year	0	0
Leases cancelled during fiscal year	2	635.94
Leases in force at March 31, 1968	0	0

	No.	Area
PURCHASE AGREEMENTS - CLEARING PROJECT		
Sales in force at April 1, 1967	42	13,458.92
Sales issued during fiscal year	1	318.98
Sales patented during fiscal year	7	2,234.91
Sales cancelled during fiscal year	0	0
Sales in force at March 31, 1968	36	11,542.99
SEED CROP LEASES		
Leases in force at April 1, 1967	3	16,349.60
Leases issued during fiscal year	0	0
Leases cancelled during fiscal year	0	0
Area deleted by amendment	1	6,053.00
Leases in force at March 31, 1968	3	10,296.60
MISCELLANEOUS LEASES		
Leases in force at April 1, 1967	1155	74,596.09
Leases issued during fiscal year	124	2,968.03
Leases cancelled during fiscal year	154	2,582.80
Leases in force at March 31, 1968	1125	74,981.32
Permits issued during fiscal year	1026	
LICENCE OF OCCUPATION		
Licences in force at April 1, 1967	1186	
Licences issued during fiscal year	461	
Licences cancelled during fiscal year	158	
Licences in force at March 31, 1968	1489	
EASEMENTS		
Easements in force at April 1, 1967	2270	
Easements issued during fiscal year	225	
Easements cancelled during fiscal year	56	
Easements in force at March 31, 1968	2439	

	No.	Area
MINERAL SURFACE LEASES		
Leases in force at April 1, 1967	3237	108,307.27
Leases issued during fiscal year	821	6,361.28
Leases cancelled during fiscal year	264	1,667.89
Leases in force at March 31, 1968	3794	113,000.66
TOWNSITE LEASES		
Leases in force at April 1, 1967	2	51.70
Leases issued during fiscal year	0	0
Leases cancelled during fiscal year	0	0
Leases in force at March 31, 1968	2	51.70
PIPELINE AGREEMENTS		
Agreements in force at April 1, 1967	2292	22,129.17
Agreements issued during fiscal year	359	5,056.75
Agreements cancelled during fiscal year	3	19.89
Agreements in force at March 31, 1968	2648	27,166.03
PIPELINE INSTALLATIONS		
Installations in force at April 1, 1967	108	412.21
Installations issued during fiscal year	24	40.67
Installations cancelled during fiscal year	0	0
Installations in force at March 31, 1968	132	452.88
RIGHT OF ENTRY		
Right of Entry at April 1, 1967	5961	
Right of Entry granted during fiscal year	67	
Right of Entry cancelled during fiscal year	127	
Right of Entry at March 31, 1968	5901	

	No.	Area
ACCRUED AREA		
Leases in force at April 1, 1967	149	8,818.78
Leases issued during fiscal year	0	0
Leases cancelled during fiscal year	18	1,077.10
Leases in force at March 31, 1968	131	7,741.68
PUBLIC LAND SALES		
Sales in force at April 1, 1967	1551	231,584.34
Sales issued during fiscal year	239	18,306.90
Sales patented during fiscal year	313	32,544.92
Sales cancelled during fiscal year	8	1,163.64
Sales in force at March 31, 1968	1469	216,182.68
AGRICULTURAL FARM SALES		
Sales in force at April 1, 1967	1710	307,927.35
Sales issued during fiscal year	193	35,010.55
Sales patented during fiscal year	166	29,183.45
Sales cancelled during fiscal year	21	3,737.38
Sales in force at March 31, 1968	1716	310,017.07
CULTIVATION LEASES		
Leases in force at April 1, 1967	830	159,633.56
Leases issued during fiscal year	53	10,807.81
Leases cancelled during fiscal year	130	23,956.58
Leases in force at March 31, 1968	753	146,484.79
SAND AND GRAVEL LEASES		
Leases in force at April 1, 1967	341	
Leases issued during fiscal year	51	
Leases renewed during fiscal year	5	
Leases cancelled during fiscal year	33	

	No.	Area
SAND AND GRAVEL LEASES (Continued)		
Leases in force at March 31, 1968	359	
Licences issued during fiscal year	106	
Exploration Licences issued during fiscal year	3	
QUARRYING LEASES		
Leases in force at April 1, 1967	4	
Leases issued during fiscal year	0	
Leases cancelled during fiscal year	0	
Leases in force at March 31, 1968	4	
AUCTION SALES		
	Listed	Sold
Public Lands	83	79
Highest price per acre	\$120.00	
Average price per acre	\$ 25.00	
	No.	Area
TRANSFER OF ADMINISTRATION AND CONTROL		
Department of Municipal Affairs	37 parcels	
St. Mary & Milk Rivers Development	3 parcels	
Department of Public Works	1 parcel	
Free Grants	6 parcels	
Exchange of Lands	20 parcels	
Land Purchases under A.R.D.A. Land Assembly Program	236 parcels	
GRAZING LEASES		
Leases in force at April 1, 1967	4299	4,447,084.42
Leases issued during fiscal year	232	141,650.53
Area added by amendment		164,071.79
Leases cancelled during fiscal year	246	203,408.96
Area deleted by amendment		34,599.59
Leases renewed during fiscal year	338	
Leases in force at March 31, 1968	4285	4,514,798.19

	No.	Area
GRAZING PERMITS		
Edmonton	736	134,309.32
Calgary	608	291,485.79
Peace River	231	56,001.04
Grande Prairie	115	42,554.62
HAY PERMITS		
Number of Permits issued	380	
Number of Tons cut	4,832.75	
ROAD ALLOWANCE		
Leases in force at April 1, 1967	1997	73,433.42
Leases issued during fiscal year	122	4,381.70
Leases cancelled during fiscal year	120	4,060.07
Leases in force at March 31, 1968	1999	73,755.05

INSPECTIONS**GENERAL**

Requests outstanding at April 1, 1967	1753
Requests called during fiscal year	4501
Reports received during fiscal year	5094
Requests outstanding at March 31, 1968	1160

SOIL SURVEY

Requests outstanding at April 1, 1967	993
Requests called during fiscal year	2882
Reports received during fiscal year	3103
Requests outstanding at March 31, 1968	772
Collection reports received during fiscal year	357

APPLICATIONS

No.

Grazing (new)	483
Grazing (renewal)	370
Road Allowance	180
Homestead Loans	423
Homestead Sales	1263
Mineral Surface	992
Pipe Line Agreement	411
Pipe Line Installation	27
Cultivation	191
Purchase	154
Miscellaneous	260
Licence of Occupation	580
Easements	299
Sand and Gravel	148
Right of Entry	64
Agricultural Farm Sale	534
Accrued Area	0
	TOTAL 6379
Cancelled Applications	1696

FORESTRY

REPORT OF THE DIRECTOR

R.G. STEELE

The fiscal year 1967-68 was highlighted by the largest known number of forest fires in the Province's history. Sustained drought conditions, particularly in the foothills area, necessitated forest closures and prohibitions on open fires well into the fall hunting season. However, our dedicated staff were able to provide prompt action and suppression of the fires to keep losses down to a very respectable level. Details of the fire losses and causes are included in accompanying tables.

The year was also notable because of a critical recession in pulp markets and relatively poor lumber markets early in the year. Although lumber prices recovered significantly in late summer and remained at a high level during the balance of the fiscal year, a very mild winter and early spring break-up prevented many timber operators from producing the quantities of lumber that could have been marketed at a good price. Total production of forest products decreased, particularly pulpwood and deciduous plywood logs. One deciduous plywood plant closed down because of economic problems.

The Province held its first public hearing for a pulp mill development after receiving two applications to develop the pulp wood resources in the Grande Prairie area. As a result of the hearing the Procter and Gamble Company was selected to pursue detailed feasibility studies that will determine the economics of developing a pulp mill operation in the area.

Since there was a demonstrated demand for additional timber supply in certain locations, several additional quotas were sold. These were all located in the northern part of the Province with the exception of several small-wood quotas sold on a cubic foot basis in the south-western part of Alberta. The cubic foot system of measurement was implemented in areas where a substantial part of the quota volume is in small sized trees.

Weigh scaling was carried out on two forest management lease areas with considerable success although some problems still require further consideration.

Demand for recreational facilities is still increasing at a rate in excess of our ability to provide the requirements. The type of facilities that are constructed at forest recreation areas continue to be rustic in design to conform with the environment. The capital development costs for most recreation areas are now shared with the Federal Government under approved A.R.D.A. programs.

Oil and gas exploration and development has been concentrated largely in the forested areas of northern Alberta with some renewed interest in southern areas. It is interesting to note that during the past year more forest land was cleared of forest cover by the oil and gas industry than by the forest industry.

The reforestation program has continued to increase steadily. The forest industry in general is accepting its responsibility to provide reforestation of cut over areas. Expansion of nursery facilities at the Oliver Nursery operated by the Department of Agriculture is progressing very favourably.

A Canso aircraft under lease was added to the fleet of owned and leased aircraft. It was used to good advantage on many fires in northern Alberta. Research continued on fire retardants and equipment required for their use.

The construction program was augmented by substantial funds from the Northern Development Council for roads and airstrips and a large building program by the Department of Public Works on our behalf. Construction commenced on the Forest Service Depot located in Edmonton. It should be completed in 1968 and will provide a much improved warehouse, construction section and mechanical equipment research and maintenance facilities.

The Forest Technology School provided training programs for employees of the Forest Service as well as to outside personnel including students in the two-year Forest Technology Course under the auspices of the Department of Education. Many special courses were given particularly in fire control. Benefits have already been received from the training given on the new Fire Simulator.

One additional crew of Junior Forest Rangers was authorized and carried out its summer training and work program in the Grande Prairie Forest.

Some amendments to The Forests Act, 1961, were approved by the Alberta Legislature. Deciduous timber can now be disposed of on a long term basis similar to the coniferous quota system. The other significant legislative change pertained to a clarification of land rights that are allocated with the granting of forest management agreements and licenses.

More details are available from the reports that have been submitted by the various Branches of the Alberta Forest Service.

MANAGEMENT

MANAGEMENT PLANS:

The implementation of the quota system continued through 1967. In addition to the board foot quotas originally established, the Department instituted a cubic foot system in all areas covered by the Rocky Mountains Forest Reserve and the southern portions of the Whitecourt and Edson Forests.

This system allows for increased utilization of the forest's variety of products and will perpetuate those quotas where there is a short supply of lumber products remaining.

Quotas were sold in five Management Units during the 1967-68 year, bringing the total number of Management Units under the quota system to 62.

The following table summarizes the total harvestable volumes of each Forest which were issued under the quota system as of March 31, 1968.

Forest	MM F.B.M.	MM Cu. Ft.
Crowsnest		5,291.4
Bow River		5,094.8
Clearwater-Rocky		7,406.0
Edson		286.0
Whitecourt	3.4	1,466.0

Slave Lake	75.2	
Grande Prairie	31.7	
Peace River	53.7	
Footner Lake	96.7	
Lac La Biche	26.6	
Athabasca	23.3	
MacMillan Bloedel Ltd. Pulpwood Lease and Reserve	55.0*	
TOTAL	365.6	19,544.2

*The MacMillan Bloedel Ltd. pulpwood lease and reserve is located within the Whitecourt and Slave Lake Forests.

In addition to quotas the annual production from Forest Management Lease Agreements is 34 million f.b.m. and 373,723 cords.

Further quotas totaling 51 million f.b.m. and 668 thousand cubic feet have been organized and will be available for sale at such time as the lumbering industry has consolidated operations in existing quotas.

WOODS OPERATIONS:

(a) Operations Control:	Timber Licences	Special Permits
Operations Active	159	37
Inspections Reported	934	92
Suspension of Operations for Cause	4	-
Penalties for Operating Cause	21	1
Seizures	3	2
Annual Operating Plans Approved	128	2

(b) Tree Scaling:

Of sixty-four current licences on tree scale, thirty-four were operated, no change from last year. Production from tree-scaled licences totalled 73,714,000 f.b.m. of coniferous species, an increase of over 15 million f.b.m. from last year.

(c) Log and Pulpwood Scaling:

There were 72 licences on International 5/16 Inch Log Scale in addition to weight scale on six timber licences and two lease areas.

Total Volumes Scaled:

1. Saw and Peeler Logs Conventional Scale	37,823,360 f.b.m.
2. Pulpwood Stacked Cords	87,071 cords
3. Pulpwood Weight Scale	140,869 cords
4. F.B.M. Weight Scale	74,620,000 f.b.m.

There were no operations on the Alberta Cubic Foot Log Rule. Reduction in the volume log scaled on the International 5/16 Inch Log Rule and the increase in weight scale volume is a direct result of Departmental policy which encourages the use of weight scaling on centralized operations. Weight scaling has been demonstrated as a more efficient and more accurate method of measurement.

(d) Scaling Licences and Permits:

	Number of Licences Issued	Number of Permits Issued
To Scale Sawlogs	2	100
To Scale Pulpwood	5	19
To Scale All Classes	7	1
Total	14	120

During the year 112 applicants wrote scaling examinations of various types. A total of 77 successfully completed their examinations with 11 unsuccessful on the pulpwood and 24 unsuccessful on the sawlog and peeler log examination.

(e) Audits:

Audits commenced	147
Audits finalized	153
Purchase records check commenced	216
Purchase records check finalized	210

With the implementation of the quota system production chargeable to each quota now forms a significant part of each audit and careful segregation of quota and non-quota production has been made on all audits throughout the year.

(f) Work was completed on a new dues schedule incorporating cubic foot accounting. Appropriate conversion factors and equivalent dues rates were developed, and the schedule was designed to integrate with dues appraisals on timber licences.

(g) A co-operative project was implemented with the Canada Department of Forestry and Rural Development and the Forest Surveys Branch of the Alberta Forest Service to assess the effect of type stratification, photo scale and mapping standards on detailed cruising costs and accuracy. The area of the study covers 27 square miles in P 6 Management Unit. Field work on detailed cruising aspects of the study has been completed.

(h) Investigations were undertaken into methods used by the Department in establishing the regulation dues rate, as a result of submissions from the Alberta Forest Products Association. The Wyman formula and methods used by other Governments were investigated. Procedures were not changed as a result of these investigations.

(i) A co-operative study to determine the cause and a method for predicting interior checking (shake) in overmature spruce was initiated. The Canada Department of Forestry and the Alberta Forest Products Association are co-operating on this study, which is centred on spruce stands in F 12 Management Unit.

TIMBER DISPOSITION, RECORDS AND ACCOUNTS

The export market for lumber took an up-swing in the fall of 1967 and has held firm since this time. There was a fair increase in price. The construction of houses was down during the year, high interest rates and restricted loaning having an adverse effect on this development. There was a serious slump in plywood demand.

The winter of 1967-68 was not kind to the forest industry. Very mild weather, lack of snow and early spring break-up resulted in decreased production.

The overall production of forest products showed a decrease as compared to 1966-67 namely 91,176 M cubic feet compared to 104,747 M cubic feet.

Production of lumber decreased by 6.12% compared to 1966-67. Due to the depressed market conditions there was a 35.6% decrease in pulpwood production.

The harvest of coniferous plywood logs increased by 6.8%.

The number of miscellaneous timber permits issued totalled 2,552 compared to 2,790 in 1966-67, a decrease of 238 permits.

The value of forest products manufactured decreased by approximately 9% from \$28,318,126 to \$25,743,858.

Fourteen Timber Quota Certificates were issued during the year covering an annual allowable cut of 19.0 MM f.b.m. and 1,773,000 cubic feet.

Eleven Timber Licences were offered at public sale estimated to support 5,601,500 f.b.m. spruce and pine, 2,917,981 f.b.m. deciduous and 60,000 lineal feet of timber.

Thirty-four Timber Licences were granted without competition to quota holders covering an estimated volume of 224,057,707 f.b.m. coniferous and 302,353 cubic feet of timber.

Twenty-four special timber permits were granted covering an estimated 2,210,083 f.b.m. coniferous, 90,020 cubic feet and 80,000 lineal feet of timber.

TIMBER PRODUCTS

Fiscal Year 1967-68

VOLUME	PRODUCT	UNIT PRICE	VALUE
15,884	Christmas Trees	\$.50	\$ 7,942
2,067 cords	Fuelwood	\$ 5.00	\$ 10,335
1,709,820 pieces	Lath	\$ 2.00 (bundle of 50 pieces)	\$ 68,393
271,881,879 f.b.m.	Lumber	\$ 60.07	\$16,331,944
3,773 pieces	Mine Ties	\$.50	\$ 1,887
243,992 cords	Pulpwood	\$ 17.50	\$ 4,269,860
3,514,310 f.b.m.	Plywood Logs Poplar	\$ 35.00	\$ 123,001
60,405,299 f.b.m.	Plywood Logs Coniferous	\$ 50.00	\$ 3,020,265
553,915 pieces	Railway Ties	\$ 2.05	\$ 1,135,526
19,318,877 lineal feet	Round Timber	\$.04	\$ 772,755
495 cords	Slabs	\$ 2.00	\$ 990
1,919	Trees for Transplanting	\$.50	\$ 960
	Total		\$25,743,858

SUMMARY OF TIMBER OPERATION ON PUBLIC LANDS

	Timber Licences and Special Permits 1967 - 1968	Miscellaneous Timber Permits 1967 - 1968	Total 1967 - 1968
Number of active operations	427	2,552	2,979
Christmas Trees (number)	450	15,434	15,884
Fuelwood (cords)	87	1,980	2,067
Lath (pieces)	1,414,120	295,700	1,709,820
Lumber (f.b.m.)	265,614,584	6,267,295	271,881,879
Mine ties (pieces)	3,773	--	3,773
Pulpwood (cords)	228,096	15,896	243,992
Plywood logs, Poplar (f.b.m.)	3,164,310	350,000	3,514,310
Plywood Logs, Coniferous (f.b.m.)	60,405,299	--	60,405,299
Railway ties (pieces)	553,590	325	553,915
Round timber (lineal feet)	10,043,493	9,275,384	19,318,877
Slabs (cords)	495	--	495
Trees for transplanting (number)	--	1,919	1,919
Timber Seizures	--	--	8
Custom Sawmill, Planing Mill or Timber Processing Plant Permits (number)	--	--	82

FOREST PRODUCTS TREND

Ten Year Period

1958-1968

Year	Number Licences - Special Timber Permits	Number Miscellaneous Timber Permits	MM f.b.m. Lumber - All species	MM f.b.m. Plywood Logs - Coniferous	MM f.b.m. - Plywood Logs - Deciduous	MM lin. ft. - Round Timber Poles, piling, posts	M cords Pulpwood	M cords Fuelwood	M pieces Railway Ties	M pieces Mine Ties	M pieces Lath	Number Christmas Trees	Number Trees for Transplanting	Equivalent in 1000 of cubic feet
1958-59	892	4,186	367	6	11	11	214	13	959	8	1,397	13,231		97,040
1959-60	616	4,717	386	12	14	14	258	10	798	6	1,665	21,866		104,869
1960-61	527	5,953	243	11	8	23	327	20	420	14	1,602	25,539		81,560
1961-62	548	4,075	288	20	13	20	271	8	211	27	2,686	17,070		85,315
1962-63	571	4,575	314	23	14	29	283	13	634	25	3,231	44,347		95,363
1963-64	610	5,866	381	31	22	38	300	7	659	5	3,764	24,880	2,510	112,103
1964-65	646	3,083	319	18	11	28	390	3	393	nil	2,210	37,008	2,347	105,114
1965-66	568	2,795	309	20	13	23	379	5	432	nil	2,027	19,644	6,952	101,628
1966-67	485	2,790	290	56	12	23	379	4	443	6	2,572	27,127	1,269	104,747
1967-68	427	2,552	272	60	4	19	244	2	554	4	1,710	15,884	1,919	91,176

Trend of Schedule Rates M. f.b.m.

Spruce, Pine and Douglas Fir

Date Effective	Year	Schedule Rate
August 1	1957	\$ 6.00
August 1	1958	\$ 5.75
August 1	1959	\$ 5.75
August 1	1960	\$ 5.50
May 1	1961	\$ 5.00
August 1	1961	\$ 4.15
February 1	1962	\$ 4.15
August 1	1962	\$ 4.15
February 1	1963	\$ 4.60
August 1	1963	\$ 4.60
February 1	1964	\$ 5.50
August 1	1964	\$ 5.05
February 1	1965	\$ 5.05
August 1	1965	\$ 5.05
May 1	1966	\$ 5.05
May 1	1967	\$ 5.50

SILVICULTURE

The Silviculture Section now includes a Forester i/c, a Silviculturist and an Extension Forester. The program continues to grow at an ever increasing rate with some parts almost doubling from those of last year. A further increase is expected for 1968-69.

Expanded nursery and seed production area programs are foremost in the overall increase.

The two following tables outline in summary the projects carried out during the last fiscal year.

SILVICULTURE

FORESTRY

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Forest	Totals by Forests						Seedlings Planted	
	Scarification (acres)	Seeding (acres)	Seed Collected (lbs.) (oz.)	Thinning (acres)	Conventional (number)	Container (number)		
Crownsnest	1,238	373	23 5	113	57,650	8,300		
Bow River	1,264	90	54 12	456	70,000	7,000		
Clearwater-Rocky	3,460	3,280	182 12	147	107,446	149,320		
Edson	410.1	-	104 8	52	103,500	10,500		
Whitecourt	4,200	2,087	44 0	22	36,200	8,000		
Grande Prairie	5,985	5,985	38 10	-	70,475	10,000		
Peace River	2,100	400	-	0.37	98,286	8,564		
Footner Lake	425	-	728 9	-	20,000	12,000		
Slave Lake	5,418	4,687	11 0	-	73,725	8,900		
Lac La Biche	2,165	2,165	500 1	-	63,325	8,300		
Athabasca	1,256	1,256	385 10	-	44,800	8,000		
Total	27,921.1	20,323	2,073 3	790.37	745,407	238,884		

DEPARTMENT OF LANDS AND FORESTS

Ten Year Summary

Year	Scarification (acres)	Seeding (acres)	Seed Collected (lbs.) (oz.)	Thinning (acres)	Seedlings Planted (number)
1958-59	1,851	-	322	-	3,000
1959-60	2,551	115	2,125	-	35,000
1960-61	5,964	1,145	3,851	-	24,000
1961-62	10,013	3,475	6,672	-	125,000
1962-63	10,688	7,900	1,540	-	173,000
1963-64	9,015	8,242	325	281	261,000
1964-65	10,477.8	6,769.5	4,361	1,005	325,083
1965-66	18,495	11,141	221	715	700,751
1966-67	17,902	13,001	444	600	876,072
1967-68	27,921.1	20,323	2,073	790.37	931,791

FOREST LAND USE**Petroleum and Natural Gas - Green Area**

Applications received for land surface rights from petroleum and natural gas industries.

Forest	1964-65	1965-66	1966-67	1967-68
Athabasca	3	11	5	17
Bow River	7	7	2	13
Clearwater-Rocky	113	103	117	92
Crowsnest	3	7	4	1
Edson	79	68	50	30
Footner Lake	Included with Peace River	200	613	847
Grande Prairie	48	40	34	45
Lac La Biche	35	61	40	41
Peace River	71	47	43	67
Slave Lake	806	798	425	255
Whitcourt	308	199	137	192
Total	1473	1541	1470	1600

The previous table illustrates a steady increase in activity in the Rainbow and Zama Oilfields situated in the Footner Lake Forest. Total loss of forest cover by oil and gas exploration and development is estimated to be over 60,000 acres. A new type of seismic exploration, common depth point shooting, is being used, increasing seismic line density and the acres of forest cover cleared from an estimated 30,000 acres to the present 60,000 acres.

Major pipe lines were constructed from Valleyview to the North Zama Oilfield and from the Tweedie Gas Field to Great Canadian Oil Sands plantsite near McMurray for a total length of 415 miles.

Grade construction on the Alberta Resources Railway from Brule to Grande Prairie is completed for a distance of 210 miles. In January, steel laying was completed from Brule to Sec. 30-62-3-W6th Meridian for a distance of 155 miles.

Three major gas processing plants with sulphur recovery facilities are being constructed by Pan American Petroleum Corporation and Hudson's Bay Oil and Gas Ltd., in Sec. 3-61-22-W5th Meridian, Secs. 1 & 12-62-20-W5th Meridian and Secs. 1 & 12-46-14-W5th Meridian. Raw sulphur deposits were discovered in a large area south of Fort Vermilion.

Major coal contracts were obtained from Japanese firms by Coleman Collieries Ltd., and Luscar Coals. Coleman Collieries will be developing coal seams in the Racehorse Creek area of the Crowsnest Forest. Luscar Coals will be developing coal seams in the Luscar area of the Edson Forest. Coal exploration is taking place in the Panther River area of the Bow Forest by Canadian Pacific Oil and Gas and in the Grande Cache area of the Edson Forest by McIntyre Mines.

An erosion research project to study soil loss, damage to watershed, rainfall intensity, adaptable grass mixture and the most economical method of seed application in the Swan Hills Oilfield was undertaken by the Alberta Forest Service and the Eastern Rockies Forest Conservation Board. An erosion survey of the Swan Hills Oilfield was carried out and recommendations made to the Canadian Petroleum Association to initiate corrective action on erosion damaged areas.

An experiment to flocculate solids from fluids in wellsite sumps using calcium chloride was carried out by the Clearwater-Rocky Forest. This method is being used in the Willesden Green Oilfield successfully. After analysis, the clear fluids are drained on land areas.

Grazing -

Actual use in the Rocky Mountains Forest Reserve totalled 84,698 animal unit months, with 26,137 head of cattle and horses being grazed.

In the green area outside the Forest Reserve stock, were grazed on about 300 long term leases, with lesser use by grazing permit. The leased lands comprised approximately 400,000 acres. Arrangements are being made for the Alberta Forest Service to assume full responsibility for management of grazing lands in permanent Forest Management Units.

GRAZING 1967

	CROWSNEST FOREST		BOW RIVER FOREST		CLEARWATER-ROCKY FOREST		FOREST RESERVE TOTAL	
	1966	1967	1966	1967	1966	1967	1966	1967
Cattle	14,391	14,562	9,509	9,994	960	1,166	24,860	25,722
Sheep	1,000	-	-	-	-	-	1,000	-
Horses	-	-	289	276	147	139	436	415
Total	15,391	14,562	9,798	10,270	1,107	2,305	26,296	26,137
Actual Use in A.U.M.*	46,394	45,607	33,700	33,080	4,372	6,011	84,466	84,698
No. of Permits	187	181	91	94	23	24	301	299
No. of Allotments	47	47	39	39	14	14	100	100
Revenue	\$34,314.50	40,462.42	\$24,367.30	28,887.80	\$3,051.64	3,959.72	\$61,889.89	73,309.94

*A.U.M. - Animal Unit Month: the amount of forage required by one animal unit,
which is equivalent to a mature cow and calf at foot, for one month.

PROTECTION

FIRE SUPPRESSION

Suppressive action was taken on 796 fires within the "forest protection area". An area of 23,215 acres was burned over, consisting of 13,438 acres of forested land, 2,389 acres of non-forested Crown land and 7,388 acres of private land. The 796 fires are shown below by size class.

458 Class "A" or small fires (1/4 acre or less)

237 Class "B" (over 1/4 acre up to 10 acres)

64 Class "C" (over 10 acres up to 100 acres)

25 Class "D" (over 100 acres up to 500 acres)

12 Class "E" (over 500 acres)

In addition to the above, action was taken on 36 fires that were not the responsibility of the Forest Service. These fires burned over an area of 4,378 acres.

FIRE DETECTION

Expansion of the basic fixed detection system continued, bringing the total number of lookouts to 143. A distance of 104,000 miles was flown by aircraft on fire patrol during which 118 fires were discovered.

The fires reported by different agencies are shown on the accompanying tables.

AIRCRAFT OPERATIONS

	Government Owned	Leased	Casual Charter	1967 Total
Helicopters	3	5	24	32
Fixed Wing	3	9	48	60
Total	6	14	72	92

Total hours flown - 9,614 all aircraft

Aircraft were in action on 258 fires

1,105.5 tons of cargo was hauled and 10,575 passenger hours flown

COMPARISON OF FIRE CAUSES BY PERCENTAGES
FOR THE YEARS 1958 TO 1967 INCLUSIVE

CAUSE	1958	1959	1960	1961	1962	1963	1964	1965	CAUSE	1966	1967
Campers	23.1	20.9	23.0	13.1	18.0	15.3	17.2	15.1	Recreation	19.1	20.7
Smokers	13.8	12.2	11.8	9.0	4.0	6.9	10.9	7.5			
Settlers	17.0	13.2	12.0	9.4	6.1	5.2	14.8	4.4	Settlement	13.5	10.5
Railways	5.6	2.6	2.5	0.2	3.6	1.3	1.8	2.8	Railroads	1.9	5.9
Lightning	17.5	23.0	22.2	41.8	37.8	47.5	25.1	45.2	Lightning	28.3	33.9
Industrial	6.0	5.3	9.1	7.5	14.7	6.9	7.7	9.5	Other Industries	20.2	12.8
Incendiary	10.3	15.3	12.2	10.5	6.8	12.8	16.6	9.9	Forest Industries	1.9	2.7
									Incendiary	9.4	7.2
Public Projects	1.5	2.6	1.9	2.2	2.5	0.5	4.7	2.8	Public Projects	2.2	1.3
Unclassified	1.5	2.8	1.9	1.9	2.2	0.9	0.9	1.6	Unclassified	3.0	2.5
Unknown	3.7	3.4	2.5	4.4	4.3	2.7	0.3	1.2	Unknown	0.5	2.5

DEPARTMENT OF LANDS AND FORESTS

SUMMARY SHOWING TOTAL NUMBER OF FIRES AND BURNT OVER AREAS

FROM 1956 to 1967 INCLUSIVE

Year	Total Fires	Non- Forested Acres	Forested Acres	Total Area Acres	Suppression Costs \$
1956	258	116,679	577,801	694,480	657,092
1957	180	3,777	11,709	15,486	129,956
1958	464	75,753	155,240	230,993	1,475,347
1959	469	36,805	51,154	87,959	1,184,341
1960	474	9,497	10,463	19,960	345,623
1961	811	36,288	157,257	193,545	2,365,862
1962	278	1,386	3,120	4,506	210,869
1963	554	3,055	14,554	17,609	609,502
1964	338	6,325	8,732	15,057	396,719
1965	252	4,565	49,769	54,334	574,516
1966	371	34,108	35,842	69,950	1,305,603
1967	796	9,777	13,438	23,215	2,382,615
TOTALS	5,245	338,015	1,089,079	1,427,094	11,638,045

ANNUAL STATEMENT OF FIRES BY CAUSES, MONTHLY DISTRIBUTION ETC.

FOR THE YEAR 19 67

ALBERTA (PROTECTION AREA) _____ FOREST _____

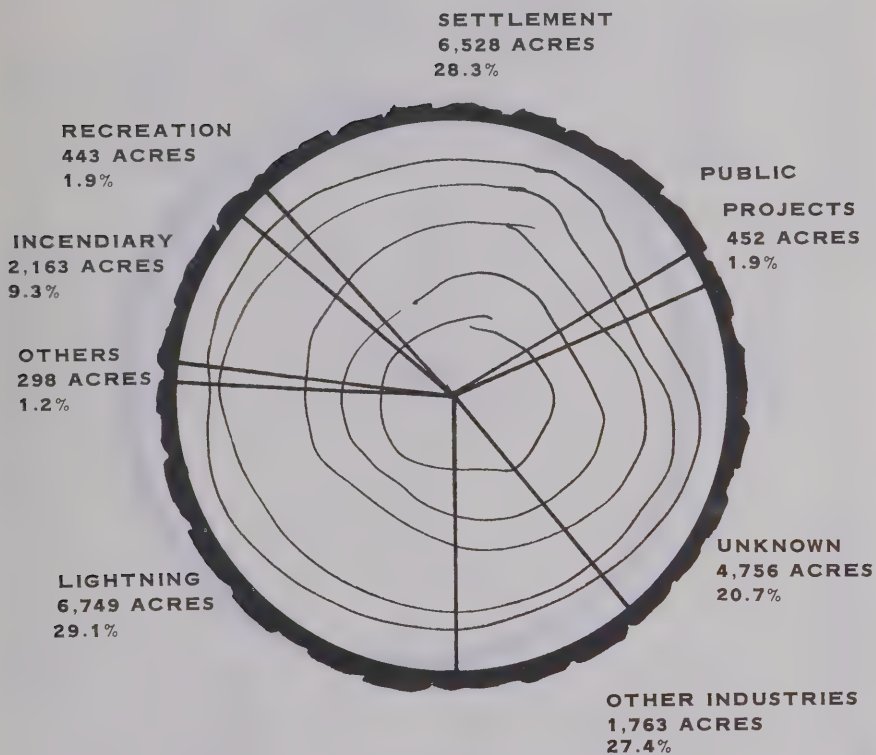
CAUSE	NUMBER							MONTHLY DISTRIBUTION												DISCOVERED BY				DAMAGE	AREA							
	A	B	C	D	E	TOTAL	%	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	FOREST	PUBLIC	PRIVATE	ACRES		PRIVATE LAND	TOTAL						
																											ACRES	ACRES	ACRES			
Recreation	132	23	9	1	-	165	20.7		-	1	1	9	13	21	26	24	21	29	20	25	97	34	9	-		\$						
Forest Industries	12	8	1	-	-	21	2.7	1	-	-	1	3	6	1	5	2	1	1	-	3	6	9	3	-		\$2,266	288	155	443			
																									\$2,064	90				90		
Settlement	22	29	19	8	5	83	10.5	-	-	-	1	32	10	8	9	20	3	-	-	22	38	16	7	-		\$8,375	1,448	5,134	6,582			
Railroad	27	20	-	-	-	47	5.9	-	-	-	-	3	4	24	16	-	-	-	-	-	32	8	1	6		\$ 41	4	30	34			
Lightning	152	91	16	8	3	270	33.9	-	-	-	-	5	47	118	81	18	1	-	-	155	29	7	79	-		\$184,456	6,709	40	6,749			
Other Industries	63	31	6	1	1	102	12.8	1	-	1	2	25	24	8	9	20	9	2	1	36	46	13	7	-		\$67,786	1,736	27	1,763			
Incendary	22	21	9	4	1	57	7.2	-	-	-	-	23	10	8	7	8	1	-	-	15	18	15	9	-		\$14,378	1,697	466	2,163			
Public Projects	7	3	-	1	-	11	1.3	-	-	-	-	3	2	1	3	1	1	-	-	2	8	-	1	-		Nil	452			452		
Unclassified	13	5	1	1	-	20	2.5	-	-	-	1	7	2	2	4	3	1	-	-	3	14	2	1	-		\$238	147	27	174			
Unknown	8	6	3	1	2	20	2.5	1	-	-	-	5	2	1	5	5	1	-	-	9	9	1	1	-		\$27,920	3,256	1,509	4,765			
TOTALS	458	237	64	25	12	796		3	-	2	6	115	120	192	165	101	39	32	21	270	297	105	118	6		\$307,524	15,827	7,388	23,215			
PER CENT.	57.5	29.8	8	3.1	1.6		100	0.4	-	0.3	0.8	14.4	15.1	24.1	20.7	12.7	4.9	4.0	2.6	33.9	37.3	13.2	14.8	8.8			68.2	31.8	100			

AREA BURNED BY CAUSE 1967

PROTECTION AREA ONLY

NON-FORESTED 9,777 ACRES
 FORESTED 13,438 ACRES

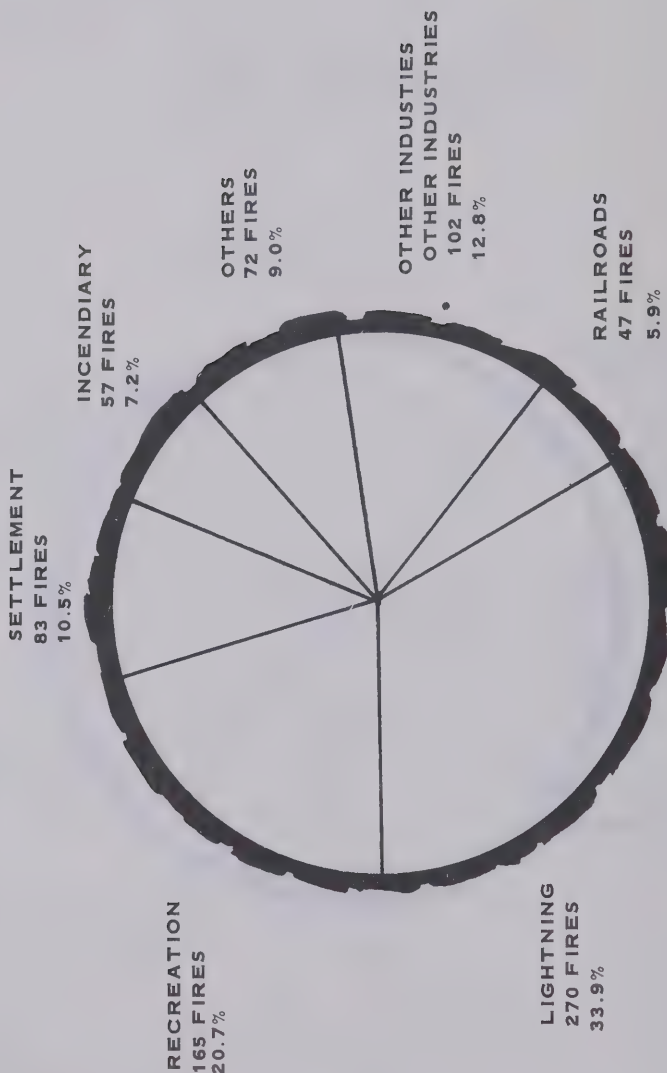
TOTAL 23,215 ACRES



THE 298 ACRES OR 1.2% UNDER 'OTHERS' INCLUDES
 FOREST INDUSTRIES, RAILROADS AND UNCLASSIFIED.

NUMBER OF FIRES BY CAUSE 1967

TOTAL FIRES 796



THE 72 FIRES OR 9.0% UNDER 'OTHERS' INCLUDES FOREST INDUSTRIES, PUBLIC PROJECTS, UNCLASSIFIED AND UNKNOWN.

FIRE WEATHER

Snowfall during the winter of 1966-67 was slightly above normal for most forest regions. April was featured by two record breaking storms which piled up snow two to eight feet across southern Alberta.

May was slightly on the cool side and all areas with the exception of southwestern Alberta had below normal precipitation.

The June rainfall pattern featured heavy rainfall in the south of the Province and continuing dry weather in the north. A trend towards normal rainfall conditions developed in the latter part of the month in extreme northern areas giving assistance to bringing fires under control that had been burning in those areas.

July was featured by a northward shifting of the wet storm tracks giving record breaking rainfalls in extreme northern areas, while southern forestry area rainfall diminished to only ten per cent of July normals.

August brought hot, dry conditions in the south and central regions of the Province, with normal or above normal rainfall in extreme northern areas.

September continued sunny, dry, and very warm. The drought conditions of August persisted for the southern and central regions, while only the extreme north eastern corner of the Province received rain. Southern forestry regions had either nil, or no more than 1/10 of an inch of rain, which is about 1/10 of their normal precipitation for September.

October finally brought welcome precipitation and a return of cool weather to most forest areas with snowfall reported in northern areas during the first week of October.

COMMUNICATIONS

1967 - 1968

TELETYPE

TERMINAL STATIONS 13

CIRCUIT MILES 1,225

MESSAGES BY TELETYPE 171,347

RADIO STATIONS	VHF SSB	VHF HF	VHF	HF	TOTAL
HEADQUARTERS	5	1	6		12
LOOKOUTS (COMPLETED)		68	72		140
LOOKOUTS (INCOMPLETE)		3			3
CRAWL TOWERS			7		7
RANGER STATIONS		22	52		74
MOBILES		2	94	11	107
PORTABLES			295	146	441
REPEATERS			8		8
AIRCRAFT			17		17
INTER-PROVINCIAL			1	9	10
OTHER DEPARTMENTS			14		14
	5	96	566	166	833

MESSAGES BY RADIO

46,246

FIRE CONTROL STATIONS	VHF	SSB	HF	TOTAL
BASE STATIONS	56	10	9	75
PORTABLES	138		140	278
REPEATERS	5			5
	199	10	149	358

POWER PLANTS

HEADQUARTERS STANDBY	4
RANGER STATIONS	16
LOOKOUTS	178
RELAYS	12
AIRFIELDS	3
FIRE CAMPS (PORTABLE)	59
MAINTENANCE AND CONSTRUCTION	21
TOTAL	293

A page copy teletype machine was installed on our Weather Circuit in the Water Resources office providing them with a copy of all weather information from our field stations and all weather forecasts from the Department of Transport.

The Footner Lake VHF installation has been completed, but problems are still being encountered due to faults in equipment as supplied by the manufacturer. They are being corrected as they develop and the circuit will be operational by the start of the fire season.

Unicom units for aircraft control at Headquarters, selected towers and fire camps were ordered and will be established at Headquarters prior to the fire season and available for fire camp use. The towers will be installed during the summer.

System design work was completed for the VHF conversion in the Peace River, Lac La Biche and Athabasca Forests. In order to reduce delivery and installation delay, standard equipment is utilized. A Remote Control System was designed for the five watt portables enabling this unit to be utilized at towers, in vehicles and as portables allowing complete flexibility of use. These systems will be usable by the fire season and completed during this summer.

The new 12 - Channel Aircraft Units were installed in the aircraft and proved to be very successful.

Specifications were drawn up for the Entrance Provincial Park's Communication System providing a park operating frequency and a tie in with the Edson Forest frequency. The system was installed and proved satisfactory.

Specifications were also drawn up for the Miquelon and Long Lake Provincial Parks Radio System which should be in operation early in the coming season.

FIRE RESEARCH

During the past year the major programs in fire research were:

1. Detailed study of controlled burns in the "deep duff" area of the North Western Pulp and Power lease. This was a co-ordinated program between the Federal Department of Forestry and Rural Development, North Western Pulp and Power Company and the Alberta Forest Service. Instrumentation of these areas was completed, however, due to the fire weather and fire load all the burns could not be carried out. This program is being continued into 1968.
2. A Federal-Provincial program on the study of the effectiveness of our contracted water bombers was initiated during the past year.
3. A preliminary survey on a method for classifying slash areas was also started during the year. This program is being conducted by the Alberta Forest Service. Further work will be carried out on this program and possibly a practical application of this method will be initiated.

EQUIPMENT MAINTENANCE DEVELOPMENT AND RESEARCH

This section has now completed two years of operation as a separate entity in the Protection Branch of the Department of Lands and Forests.

Objectives of the section remain the same, namely; to supply mobile equipment and to guide the mechanical maintenance procedures for the Forest Protection Branch as well as to carry out the necessary research and development of specialized equipment as it becomes necessary. The latter will be done only as necessary following thorough investigation of the possibilities of obtaining the equipment elsewhere.

Re: Research and Development

The year 1967 brought about the completion of construction of the M.B. Athabasca boat. The new boat left Edmonton for Fort McMurray on April 5, 1967. This unit is now being used as a "pusher" for barge operation between Fort McMurray and Fort Chipewyan.

Major projects being pursued in the Research and Development Section following the completion of the boat have included the development of a major hose testing, washing, drying and rolling unit. Basic design for this machine includes equipment capable of testing, washing, drying and rolling approximately 10,000 feet of hose per day.

Research also continued on a venturi device which could adequately mix Gelgard (a jelling agent) with water for more effective fire-bombing operations. Development was not completed before the 1967 fire season. Nevertheless, reasonable success was noted with the mixing operation during that season. Approximately 28,000 pounds of the Gelgard powder was mixed with water through this device during the fire season.

A number of smaller projects were undertaken during the year. These included the development and production of "Utilization Cages" for Forest Management, the continual production of firescope mounts and of fiberglass tree calipers.

Production of more extensive proportions included the fabrication of eight lookout cupolas.

Production of two 18 foot inboard-outboard fiberglass boats was completed in October, 1967, for the Athabasca Forest.

Complete specifications were made for a jet-type 26 foot river boat, tenders have been let and a contract awarded for the building of the boat.

Demonstrations of a number of new pieces of equipment were attended by the Development Section. These included the demonstrations of a new larger capacity fire pump and two new type track vehicles.

Maintenance Section.

Specifications were completed and orders sent out for a total of 65 trucks this past year, 49 of which were replacement vehicles and 16 of which were additional new units. In addition, specifications were completed and orders made up for a number of other types of equipment ranging from "Tote Cotes" to Road Graders.

CONSTRUCTION AND MAINTENANCE

Approximately \$417,000 was expended on the construction of roads.

New Road Work Accomplished:

Road Grade	52.75 miles
Right-of-way cleared	278 acres
Total length of new bridges	310 feet

In addition to the above, 26 miles of road was constructed and 682 lineal feet of bridges were erected for the Northern Alberta Development Council. Fourteen miles of road constructed and 173 acres of right-of-way were cleared under the A.R.D.A. program.

Road maintenance - Twenty-two Forest Service graders were utilized in road maintenance work.

Nine airstrips were constructed to light aircraft standards and four were improved at a total cost of \$244,800 bringing the airstrip total to 119. One commercial type airstrip was constructed for the Northern Alberta Development Council.

Buildings - The construction of new buildings involved an expenditure of \$283,850.

The following chart indicates the projects constructed in 1967 and the total number of buildings. This does not include major building construction at Forest Headquarters which is the responsibility of the Department of Public Works.

Type of Building	Buildings Constructed 1967	Building Inventory Total
Residences	6	140
Primary Lookouts	3	143
Secondary Lookouts	1	35
Garages	2	72
Cache-Garage Combination	1	13
Tool Caches	Nil	70
Lookout Cabin	3	110
Engine Houses	6	171
Barns	Nil	22
Campshelters	Nil	55

DEPARTMENT OF LANDS AND FORESTS

Type of Building	Buildings Constructed 1967	Building Inventory Total
Campgrounds	Nil	114
Stop-over Cabins and Bunkhouses	3	116
Trailers, House, 3 bedroom	1	6
Offices	3	6
Airport - Garage - Office - Waiting Room Combination	2	2
Airport Administration Building	1	1
Misc. Buildings: Speeder sheds, fuel caches, boat sheds, remote receiver sheds, etc.	12	293
TOTAL	45	1,370

FOREST SURVEYS AND PLANNING

During the past fiscal year the Branch continued with the many projects in its regular program and commenced several new ones relative to providing photogrammetric, mapping and drafting services to other Branches, Divisions and public agencies.

A summary of the work accomplished by the Branch is outlined as follows:

RECREATION PLANNING

A continued program of planning, expansion and re-development of many existing forest recreation areas throughout the Green Area was carried out during 1967-68. Much of this development program is financially supported by ARDA under Project 28035 and will extend to 1970 under terms of the Federal-Provincial Rural Development Agreement.

TECHNICAL SERVICES

Mapping and Compiling -

1. Access information was interpreted on photographs and transferred to 1:63,360 scale work sheets for 73 maps (24,000 square miles) and to 1:31,680 scale work sheets for 40 maps (6,500 square miles).

2. Two hundred and thirty base map films (76,500 square miles) at 1:63,360 scale and 40 base map films (6,500 square miles) at 1:31,680 scale were updated with the following:

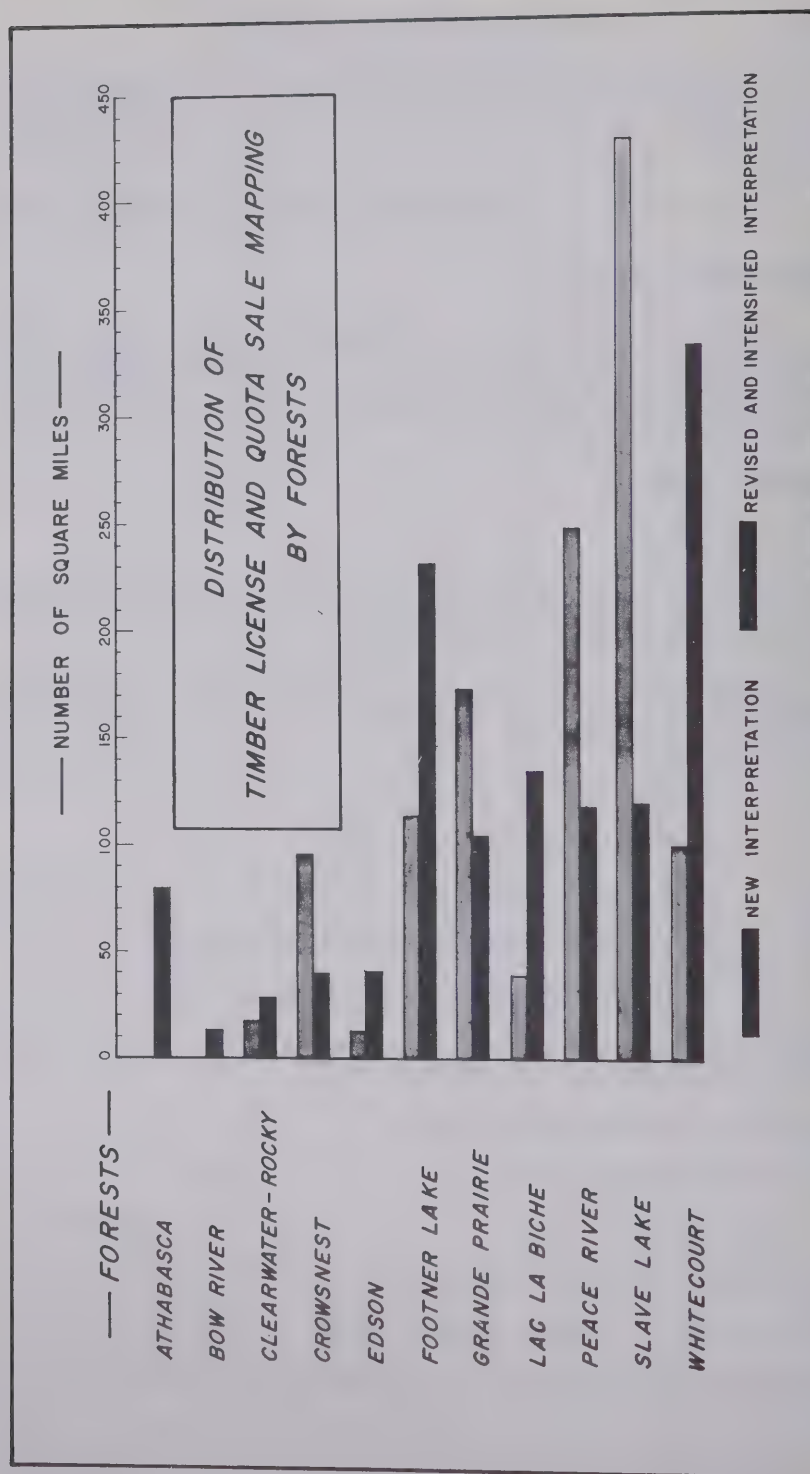
- (a) Road additions and revisions
- (b) Forest cover changes due to fires
- (c) New forestry installations
- (d) Topographical changes and geographical names
- (e) Oil and gas exploration and development activity

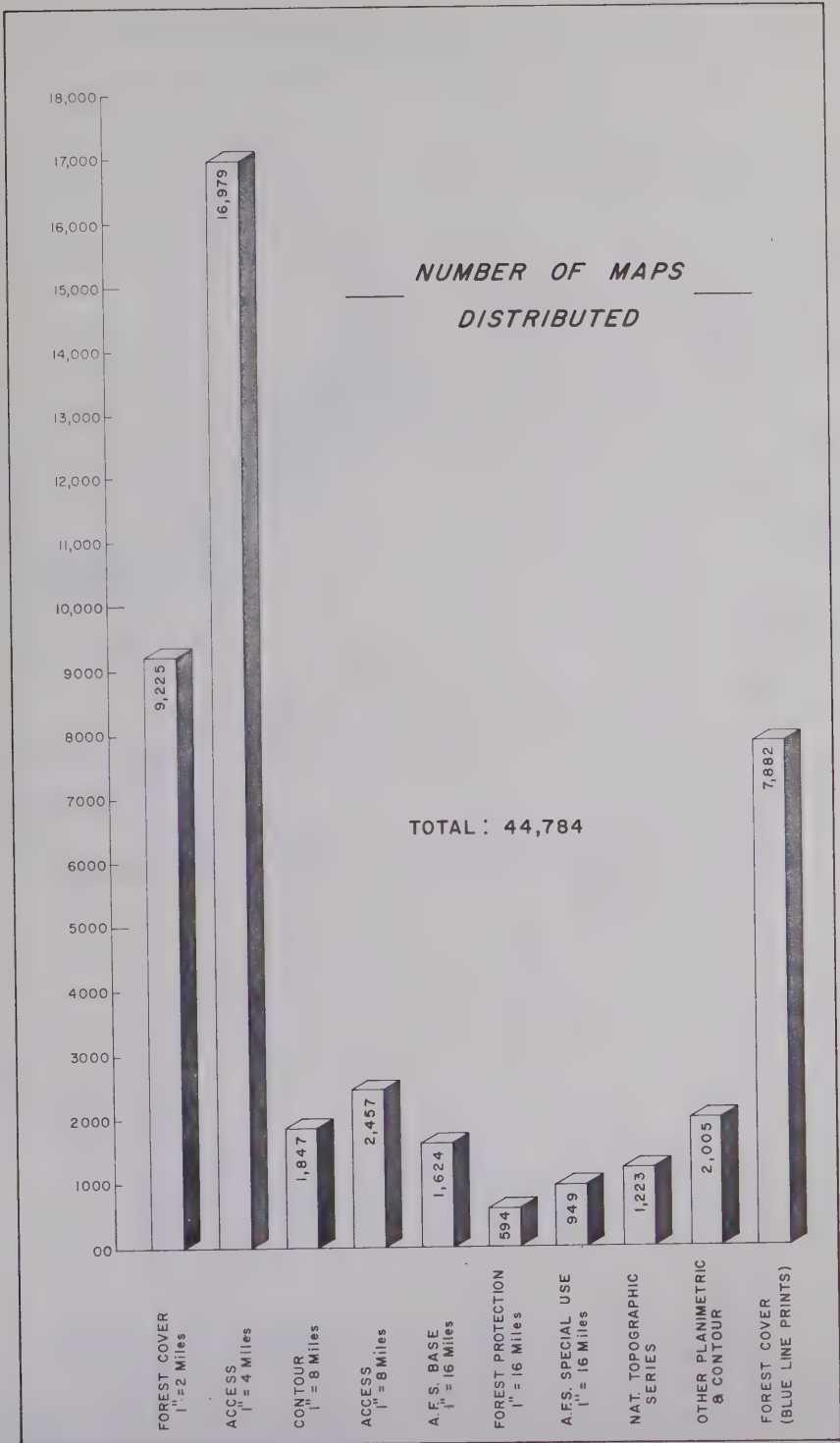
(1 and 2 illustrated by two small Provincial maps combined on one page showing "Access Information" and "Map Sheets Revised".)

Timber License and Quota Sales Mapping -

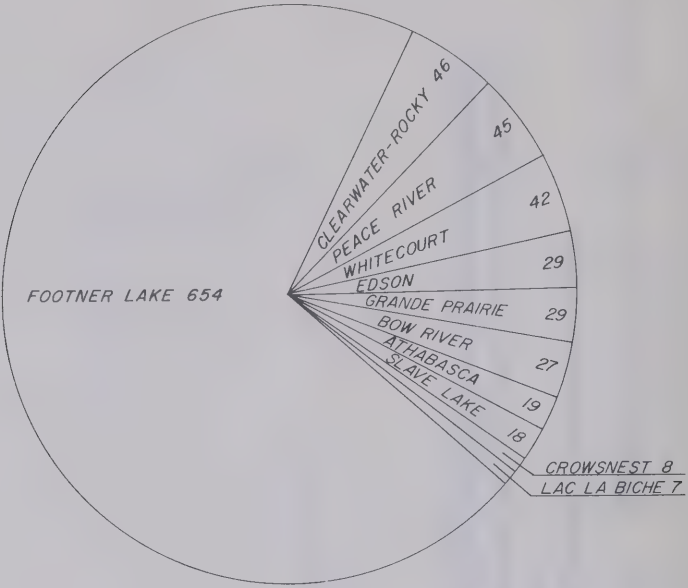
Number of maps processed	155
Total area mapped	2,511 square miles
Area of new photographic interpretation	792,640 acres
Area of revised and intensified interpretation	814,400 acres

(Illustrated by graph "Timber License and Quota Sale Mapping by Forests".)



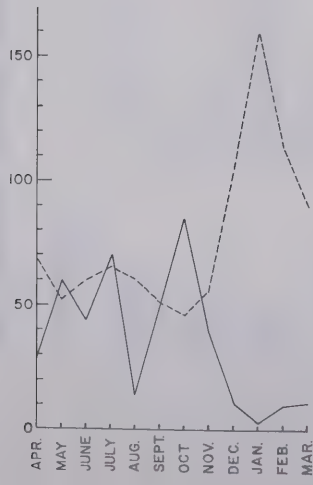


DISTRIBUTION OF GEOPHYSICAL APPLICATIONS
BY FORESTS



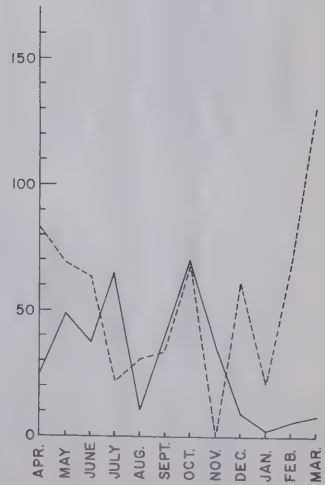
TOTAL 924 GEOPHYSICAL PLANS PROCESSED

NUMBER OF PLANS PROCESSED



----- APPLICATIONS (TOTAL 924)
—— FINAL PLANS (TOTAL 422)

TIMBER DAMAGE ASSESSMENTS



—— FROM FINAL GEOPHYSICAL PLANS (TOTAL 356)
----- FROM LAND USE DISPOSITIONS (TOTAL 656)

Geophysical Applications Processed -

Preliminary Plans	924
Final Plans	422

(Illustrated by graphs "Distribution of Geophysical Applications by Forest" and "Number of Plans Processed".)

Other Land Use Applications Processed -

	Applications Plotted for Mapping Purposes	Applications Assessed for Timber Damage
Mineral Surface Lease	1,061	77
Right of Entry	65	4
License of Occupation	566	519
Installation Lease	11	-
Easement	33	10
Pipe Line Agreement	207	46
Total	1,943	656

(Illustrated by graph "Timber Damage Assessments".)

Cartography -

1. 1 inch = 2 mile Forest Cover Series

Sixty-two maps were revised and printed.

2. 1 inch = 4 mile Access Series

Six maps were revised and printed.

(1 and 2 illustrated by two maps on one page. Map distribution shown by graph.)

Miscellaneous Mapping -

The following special purpose maps were prepared during the year:

(a) Recreation Area Maps	15
(b) Grazing Allotment Maps - Vegetative Type	13
(c) Forestry Road Maps	27
(d) Fire Protection Maps	234

In addition 44 square miles of Crown lands were interpreted, mapped and timber volumes calculated preparatory to various agricultural uses.

Aerial Photography by Department Aircraft and Personnel -

Forestry Roads for Mapping and Registration	150 line miles
Other Roads for Location Purposes	75 line miles
Fire Lookout Sites	16
Fires	23
Timber Licenses	16
Airstrip Locations	6
Forest Recreation Areas	15
Forest Management Projects	26
Miscellaneous Areas	11

Alberta Forest Service Stereograms -

A series of stereograms are being prepared as an aid for aerial photo interpretation of forest cover. The series consists of 139,9 inches x 9 inches, photographs on which two stereoviews are printed together with data pertaining to the type of forest cover on each stereoview.

Lake Survey -

The surveying and mapping of strategically located lakes in the northern portion of the Province relative to water pickup and servicing purposes for Canso water bombers was continued. During the summer of 1967 a Beaver aircraft was used to transport a boat, sonar sounding gear and personnel from lake to lake and 67 lakes were found suitable by this method.

Panoramic Photograph Folder

Folders are being assembled to assist in the plotting and transmission of fire locations. These contain 10 to 16 photographs taken from the tower cupola and cover overlapping degrees of azimuth. A set of five folders will be prepared for each tower in the Province. To date 110 folders for 22 towers have been completed.

Detailed Forest Management Inventories

Operation	Number of Square Miles Completed		Total
	New Inventories	Inventory Revisions	
Aerial Photography	12,890		
Forest Cover Interpretation	3,240		
Mapping	3,785		
Type Checking	3,785		3,785
Coding	5,324	5,019	10,343

Operation	Number of Square Miles Completed		Total
	New Inventories	Inventory Revisions	
Key Punching	-	-	-
Checking	-	6,724	6,724
Compilation	-	10,952	10,952
I.B.M. Statements	-	10,952	10,952

Most of the new detailed forest inventory work involved the Footner Lake Forest forest management units.

The overhauling of the detailed forest inventory statistics for the Rocky Mountains Forest Reserve and adjacent area was completed during the year. This revision was necessary due to forest management unit boundary changes and for the need to provide the Forest Management Branch with township forest type listings for the area.

- (1. Illustrated by map showing photography completed.
2. Illustrated by map showing Forest Inventory and Management Planning progress.)

ARDA -

Illustrated by two small maps on one page -

1. Land Classification and zoning.
2. Canada Land Inventory.

TECHNICAL SERVICES

Statistics for the Period April 1962 - March 1968

Mapping and Compiling -

	Forest Cover Maps 1 inch 1 mile				Forest Cover Maps 1 inch 2 miles			
	Photo Interpretation of Planimetric and Access Information		Films Updated		Photo Interpretation of Planimetric and Access Information		Films Updated	
	No. Maps	Sq. Miles	No. Maps	Sq. Miles	No. Maps	Sq. Miles	No. Maps	Sq. Miles
1962-63	49	16,100	97	32,000				
1963-64	90	29,250	89	28,925				
1964-65	115	31,500	192	62,400				
1965-66	104	34,000	275	84,000				
1966-67	135	43,875	291	94,575				
1967-68	73	24,000	230	76,500	40	6,500	40	6,500

Timber License and Quota Sales Mapping -

Acreage of Photo Interpretation

	Number of Cruise Maps	New	Revised and Intensified	Area Mapped in square miles
1962-63	171	468,480	803,200	1,255
1963-64	148	331,520	948,160	1,482
1964-65	183	307,000	1,776,000	3,099
1965-66	151	353,600	709,440	1,109
1966-67	273	673,360	2,547,200	3,980
1967-68	153	792,640	813,400	2,511

Geophysical Applications Processed -

Year	Preliminary Plans Approved	Final Plans Approved	Number of New Line Miles Cut	Number of Existing Line Miles Used
1962-63	342	143		
1963-64	435	132	7,755	
1964-65	392	175	7,639	8,080
1965-66	603	206	7,204	8,656
1966-67	1,216	422	18,064	12,821
1967-68	924			

Other Land Use Applications Processed -

Year	Applications Assessed for Timber Damage and Plotted for Mapping Purposes				Others
	Mineral Surface Lease	Right of Entry	License of Occupation	Pipe Line Agreement	
1962-63	294	89	39	130	
1963-64	534	59	84	71	
1964-65	501	158	127	70	
1965-66	635	153	235	215	
1966-67	1,162	75	633	251	
1967-68	1,138	69	1,085	253	54

Cartography

Map Series

Forest Cover - 1 inch 2 miles
Printed
Distributed

Access - 1 inch 4 miles
Printed
Distributed

Access - 1 inch 8 miles
Printed
Distributed

Contour - 1 inch 8 miles
Printed
Distributed

Alberta Forest Service Base - 1 inch 16 miles
Printed
Distributed

Forest Protection Series - 1 inch 16 miles
Printed
Distributed

Alberta Forest Service Special Use Series - 1 inch 16 miles
Printed
Distributed

Forest Protection Area Map - 1 inch 24 miles
Printed
Distributed

	1962-63	1963-64	Number of Copies		1966-67	1967-68
			1964-65	1965-66		
	18,750 6,790	19,560 9,000	13,975 10,685	47,650 9,803	9,900 13,017	50,650 9,225
	4,900 6,365	17,000 8,100	3,650 8,595	8,250 12,653	25,900 10,301	7,550 16,979
	1,135	3,000 920	1,145	200 976	9,000 241	2,457
	2,070 634	538	800	900 733	5,000 119	1,847
			3,500	1,663	9,275 603	1,624
	370 370	680 680	700 700	950 573	650 593	906 594
	100 112	200 344	1,300 475	600 905	1,000 776	1,012 949
						600 451

Miscellaneous Mapping -

	Number of Copies Prepared					
	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
Recreation Area Maps		20	28	16	19	15
Grazing Allotment Maps	23	32	41	38	8	13
Fire Protection Maps	20	24	69	66	96	234
Forestry Road Maps	83	138	62	6	18	27

Number of Square Miles Mapped

Crown Lands Interpreted,
Mapped and Timber Volumes
Calculated Preparatory to
Various Agricultural Uses.

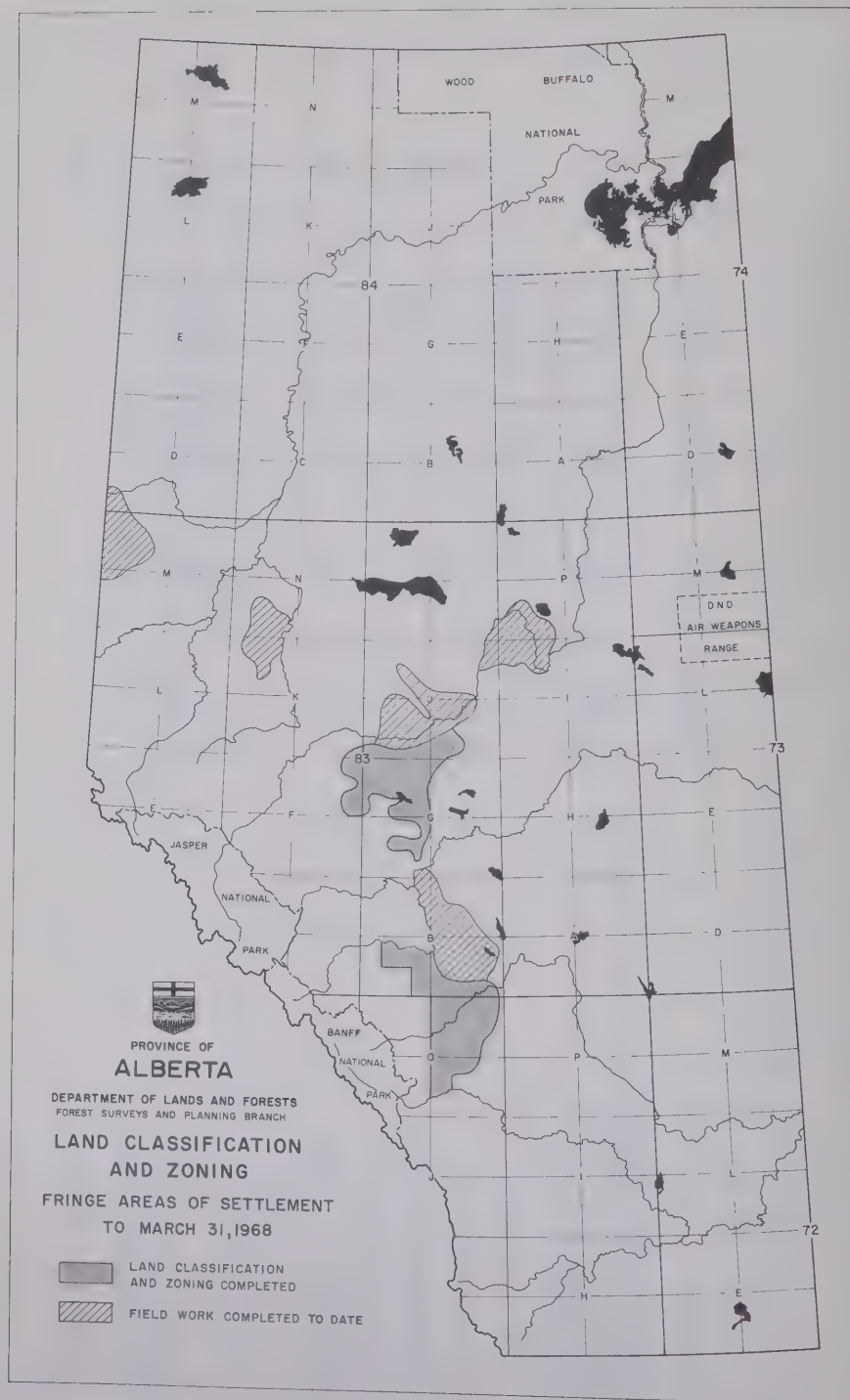
32.5	117	23	12	9	44
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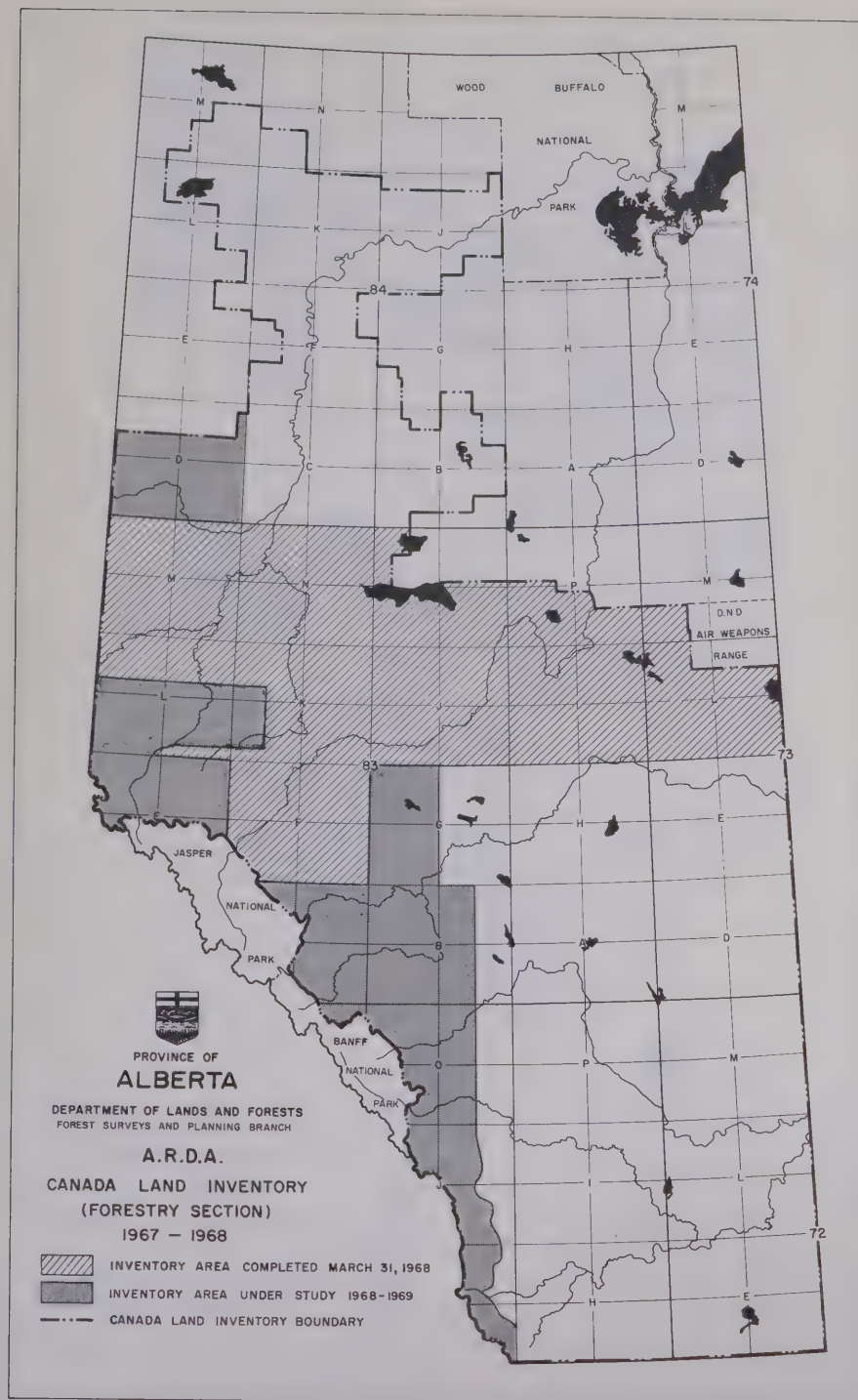
Aerial Photography by Department Aircraft and Personnel -

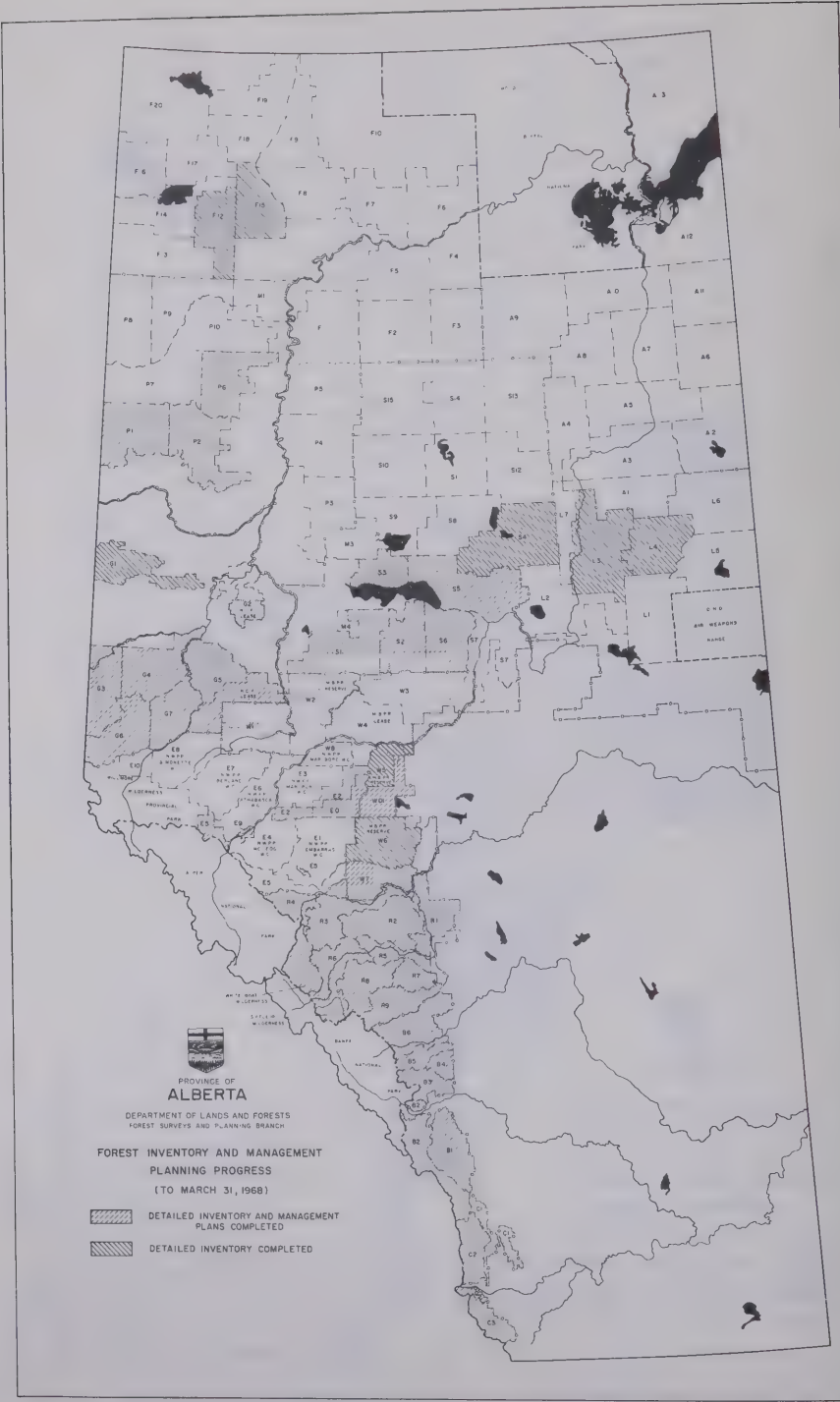
Description of Areas Flown	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
Line miles of Roads, Forestry and others, for Registration and Location Purposes	268	386	210	101	275	225
Fire Lookout Sites	25	12	1	11	3	16
Airstrip Locations	56	5	1	17	3	6
Timber Licenses			9	4	20	16
Forest Recreation Areas				15	2	15
Forest Management Projects						26
Other Sites and Locations	12	8	9	18	14	11

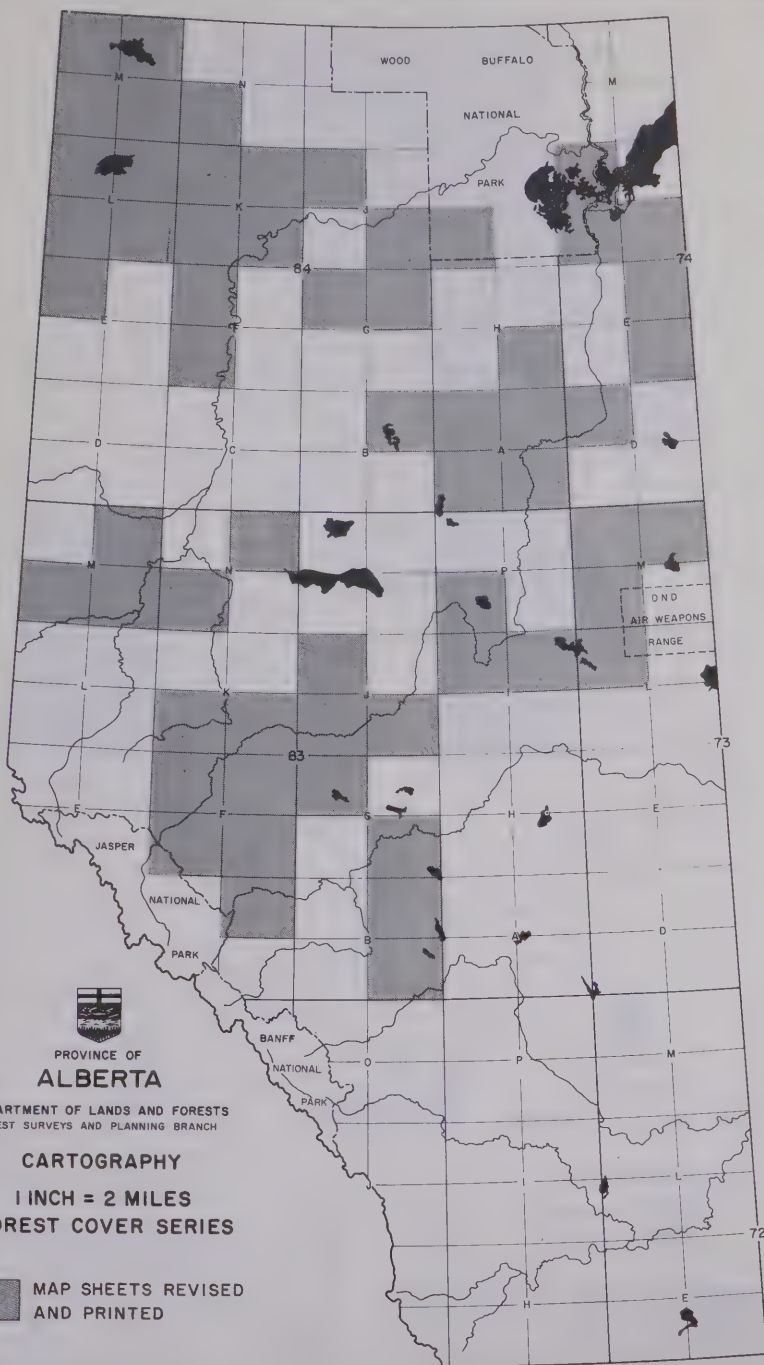
Aerial Photography Completed Under Contract -

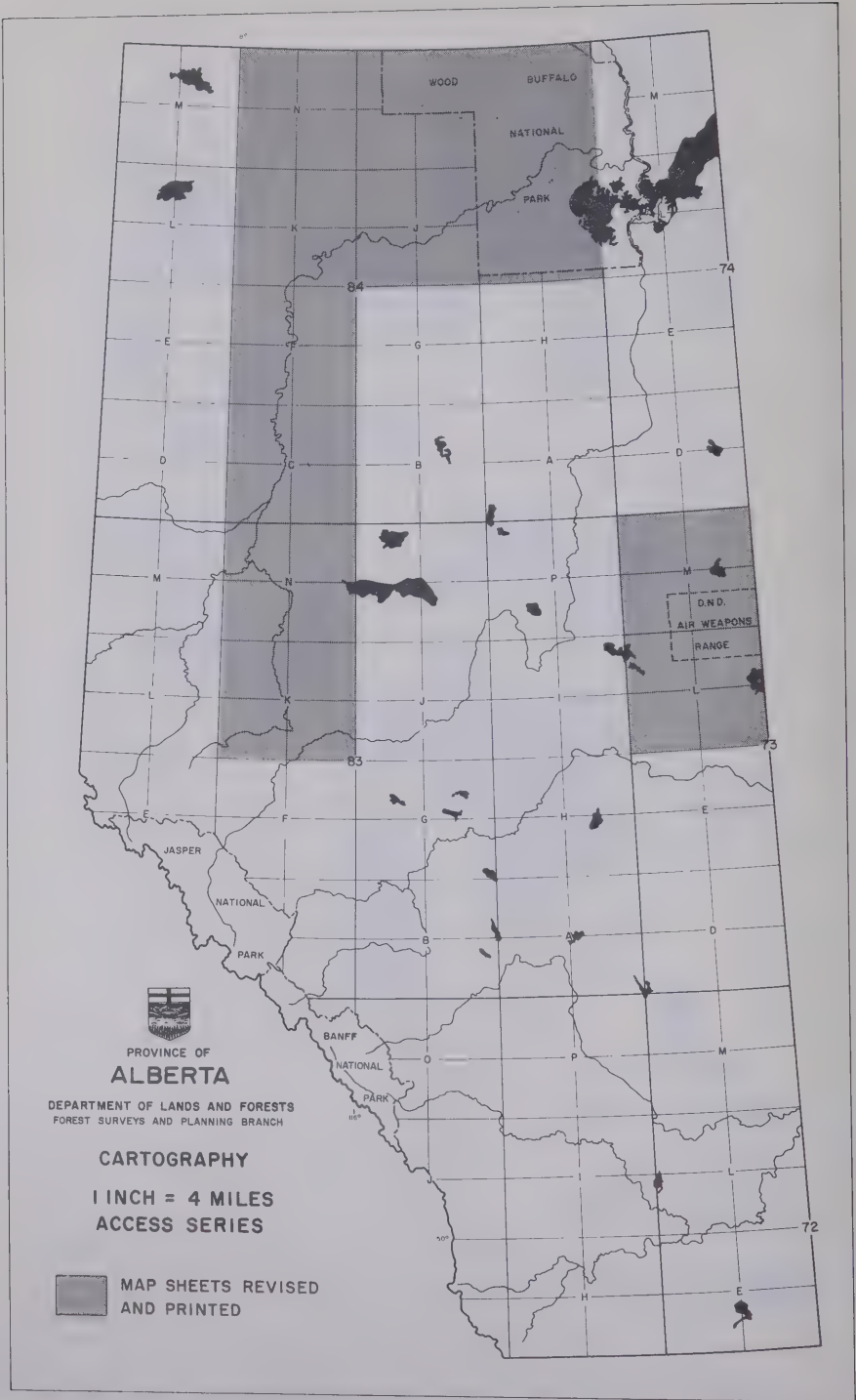
Purpose of Photography	1962-63	1963-64	Square Miles		1966-67	1967-68
			1964-65	1965-66		
For Detailed Inventory	4,606	10,504	15,900	11,640	4,130	12,890
For Access Information					5,000	4,760

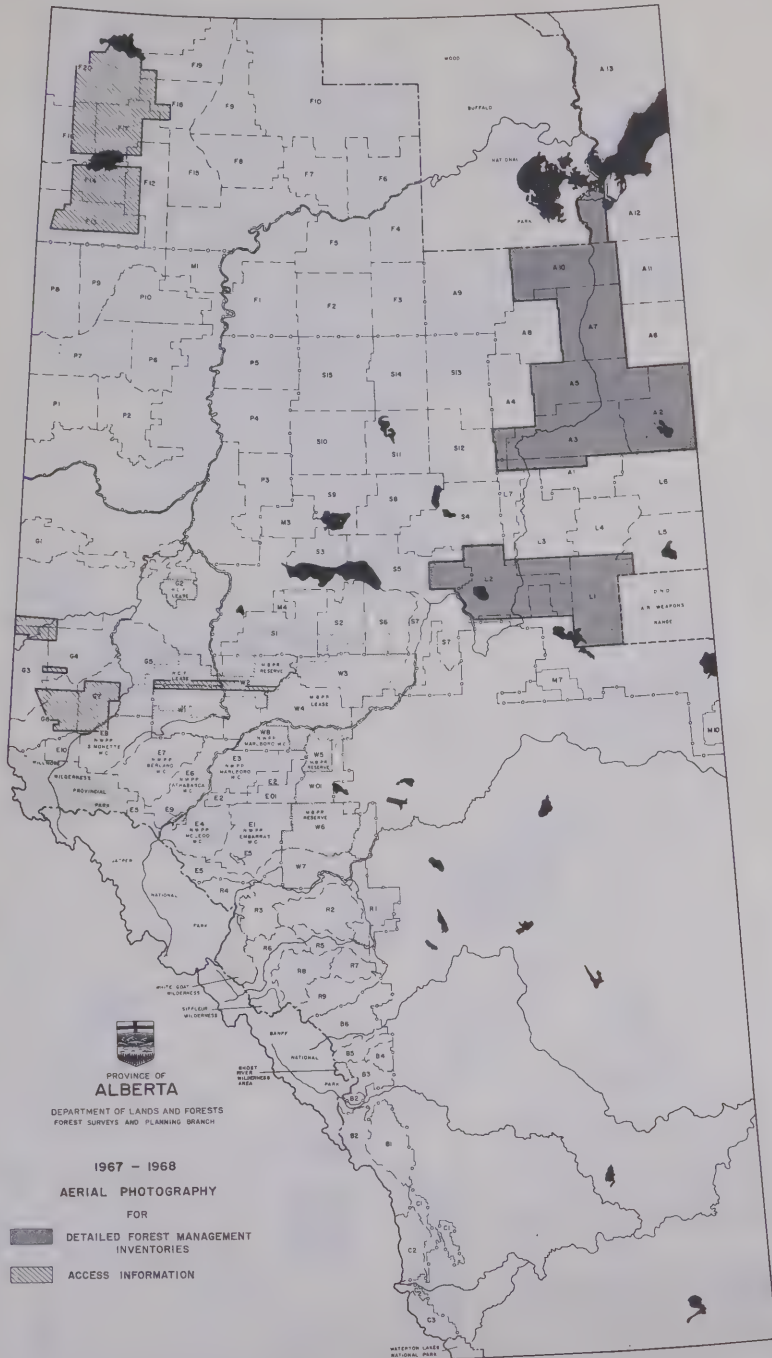


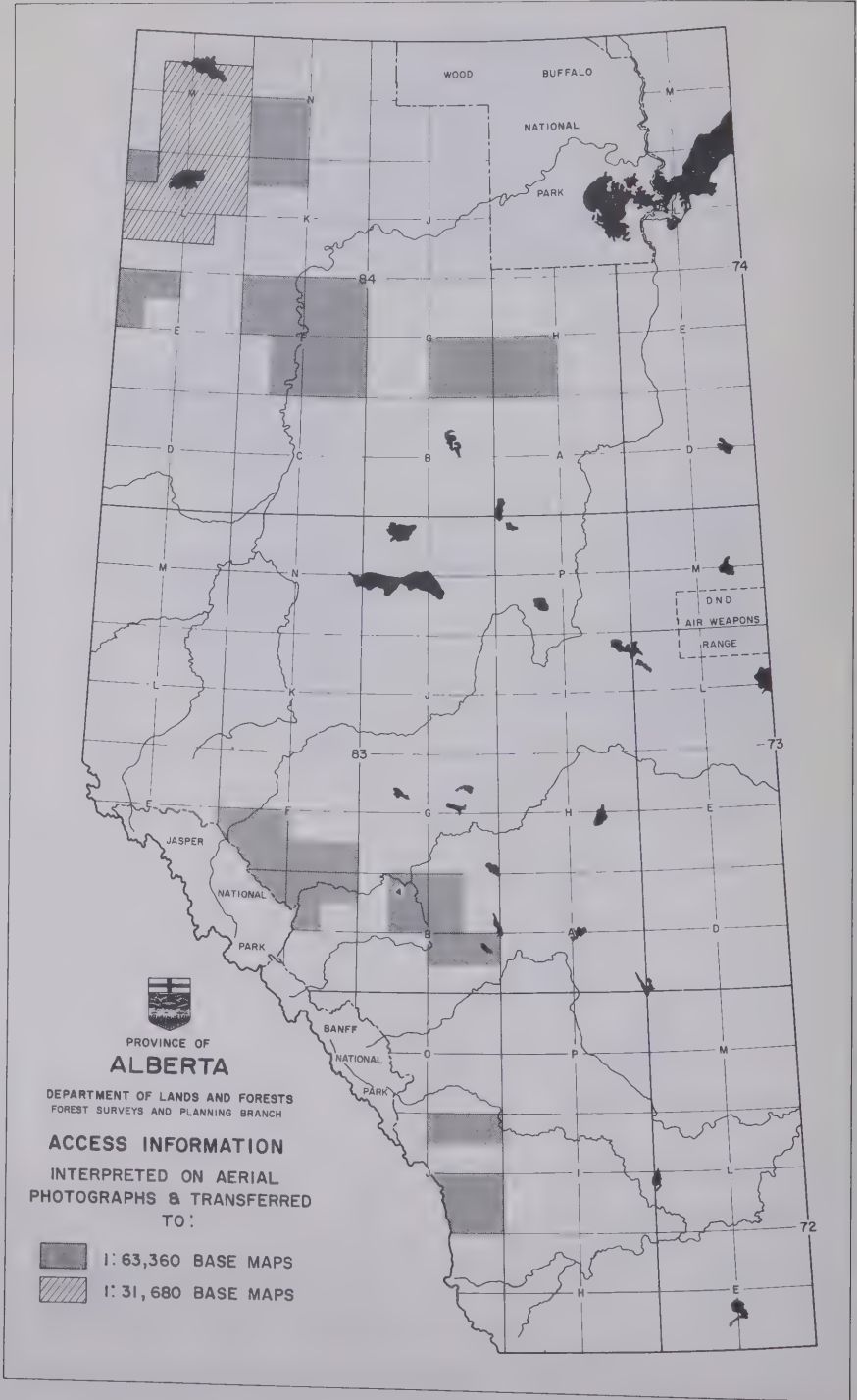


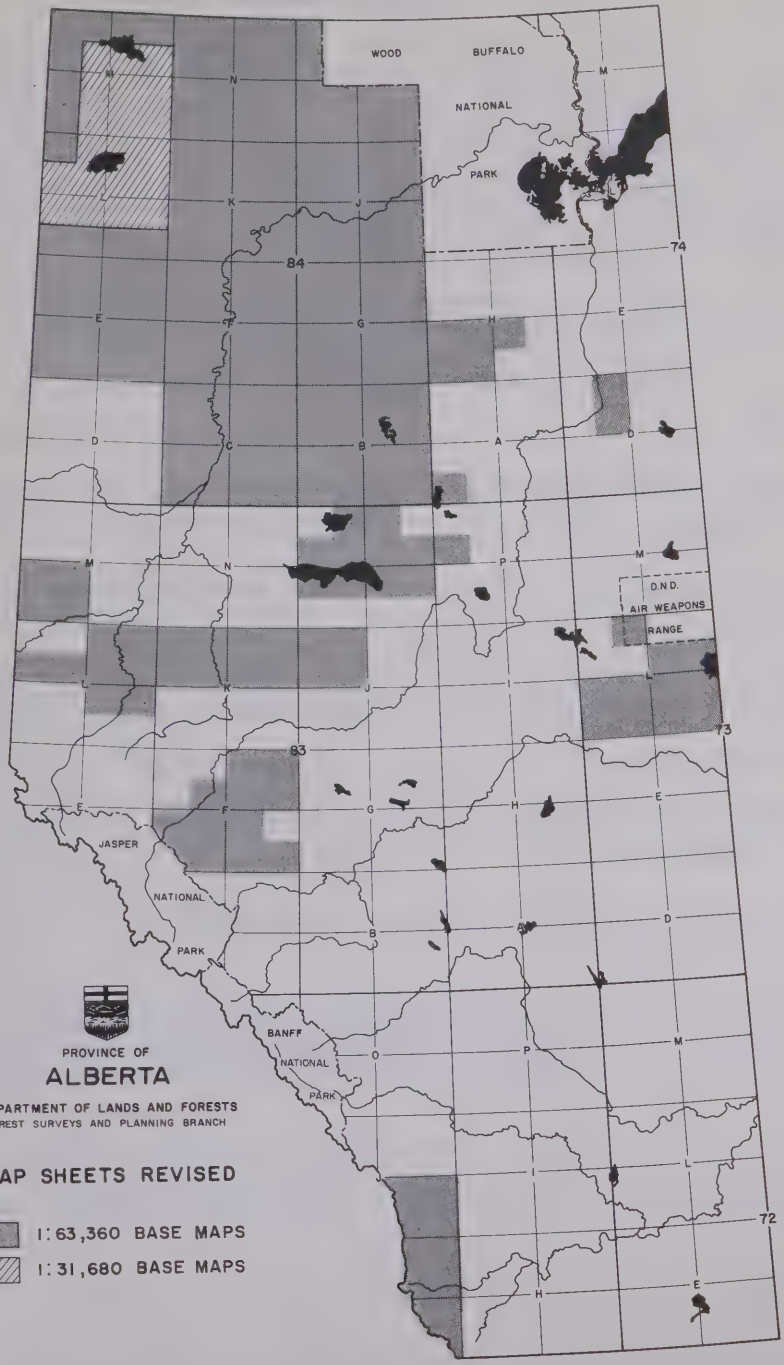













PROVINCE OF
ALBERTA
DEPARTMENT OF LANDS AND FORESTS
FOREST SURVEYS AND PLANNING BRANCH

MAP SHEETS REVISED

-  1: 63,360 BASE MAPS
-  1: 31,680 BASE MAPS

TRAINING BRANCH

The Forest Technology Program (N.A.I.T.), and a variety of In-service training and extension courses were presented during 1967. The Forest Technology Course is offered in cooperation with the Northern Alberta Institute of Technology in Edmonton who provide instruction in the first year of the two-year program. The demand for forest technicians remains high and the 26 graduates obtained employment in the resource field. Two rangers from the Mackenzie Forest Service of N.W.T., attended the Advanced Forestry Course under a co-operative agreement. The Basic Ranger Course was re-instituted to provide fundamental training to new employees.

An Instructor-Technician and a Fire Training Liaison Officer were added to the instructional staff to assist in the overall training program.

A summary of all programs given over the last year is as follows:

Course	Length	Total Attending
Forest Technology Course (N.A.I.T.)	7 weeks (conc'l)	26
Spring Forestry Camp (N.A.I.T.)	1 week	39
Forest Technology Course (N.A.I.T.)	26 weeks (cont'd)	35
Forest Technology Orientation Tour (N.A.I.T.)	½ week	35
Advanced Forestry Course	23 weeks	17
Basic Ranger Course	4 weeks (cont'd)	16
Lookout Course (3 courses)	1 week each	86
Fire Overhead (2 courses)	1 week each	37
Fire Timekeepers (2 courses)	1 week each	26
Other short courses		50

Training and certifying of outside fire suppression supervisors continued. Courses for fire overhead staff and timekeepers are given at the Forest Technology School. Graduates are presented with a card attesting their competence for a specified level of work on fires.

Firefighter training at 1-week courses is conducted at Forest level by field staff following standard lesson plans and coordinated by a fire training liaison officer. Total numbers of all certified trainees are shown in the table following: (cumulative)

	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
Fireboss	20	42	43	49	58	51
Fire foreman	3	13	23	24	48	19
Crew foreman (new category)	-	-	-	-	-	33
Strawboss	-	5	10	15	76	147
Firefighter	-	-	52	361	896	1198
Camp foreman	-	-	-	-	2	2
Timekeeper	1	1	1	29	42	65
Cook	-	-	-	-	4	4

The fire training program was augmented by the arrival of a fire simulator training device - the first such apparatus in Canada - whereby actual fire situations can be portrayed by a combination of audio and visual techniques.

Correspondence courses in mathematics and surveying continued to be sent out to new in-service employees.

Five Junior Forest Ranger camps of 12 boys each provided 8 weeks work and training in the resource management field. These camps were located in the Grande Prairie, Edson, Clearwater-Rocky and Crowsnest Forests.

The Cache Percotte Watershed study continued. Three groundwater wells were established by the Groundwater Division of the Alberta Research Council. A water quality sampling program was commenced in cooperation with the Canada Water Resources Division. Additional road construction provided access for watershed readings and student projects.

A garage building was completed which is to be used jointly for vehicles and laboratory facilities.

Administrator P.J. Murphy spent six months in Great Britain studying under a fellowship granted by the Nuffield Foundation, whereby an opportunity was provided to study many aspects of resource management.

FISH AND WILDLIFE**REPORT OF THE DIRECTOR***S.B. SMITH*

Throughout 1967, a continuing increase in hunting and fishing activities was clearly evident, when compared with the previous years. Detailed statistics are presented elsewhere in this report on licence sales and fisheries and wildlife field programs, but certain highlights are pointed out in this resume to indicate the accelerated public involvement in pursuit of fish and wildlife recreation.

Sale of Wildlife Certificates, which all hunters must purchase before buying licences for the various game species, increased by more than 14 percent from 106,132 in 1966 to 124,028 in 1967. Similarly, total bird game licences increased almost 12 percent from 65,073 in 1966 to 72,815 in 1967. Licences for all types of big game increased from 119,329 to 137,808 an increase of more than 14 percent. About one-half the increase in big game licences was caused by sale of almost 10,000 special moose licences to American hunters, who for the first time were permitted to hunt moose on a \$25.00 licence in Big Game Zone One in northern Alberta; the remaining increase in big game licence sales was caused by resident hunters buying a greater variety of big game stamps.

Angling and commercial fishing regulations were re-written in 1967, for introduction in 1968. The Province was zoned for commercial fishing to be effective by March 31st, 1968. It is anticipated that a better distribution of commercial fishermen will result from the new zoning regulations. Considerable work was involved with Federal officials of the Canada Departments of Fisheries and Trade and Commerce in exploring the possibilities of a Federal-Provincial Freshwater Fish Marketing Authority. Public announcements by the Minister of Fisheries indicate the Authority could be operative by the spring of 1969. The Authority would control all freshwater fish marketing in Alberta, Saskatchewan, Manitoba, the Northwest Territories and possibly western Ontario. If the Authority is established, it is hoped that prices to commercial fishermen for their catches will be substantially increased.

Sale of angling licences increased by 3,500 (3.0%) during 1967. From July through October the weather was generally clear and hot, which created favorable conditions for sport fishing. A total of 136,693 angling licences were sold, bringing the number of licenced anglers to the highest level ever recorded. Demand for sport fishing still is much higher than available waters can accommodate, and wherever new plantings of trout are made, pressure is immediate and heavy. Two examples of new fisheries in recently constructed reservoirs are at Chain Lakes, southwest of Claresholm, and Blood Indian Reservoir, southeast of Youngstown. Each of these P.F.R.A. reservoirs provided thousands of hours of fishing for Rainbow Trout throughout the year.

Utilization of native species of fish (walleye, grayling and pike) in Northern Alberta still is very light, and can provide many thousands of additional anglers good fishing recreation. At the present time, lack of good access roads is the chief impediment to greater exploitation of fish stocks in northern areas. Significant economic benefits can accrue to rural areas of Northern Alberta when access is improved and accommodation and other services become available to sport fishermen. There is no immediate foreseeable limit to greatly increased exploitation of game fish populations in the northern areas of the Province.

Appointment of research biologists, both in fisheries and in wildlife, has resulted in more emphasis being placed on the accumulation of data on the more important fish and game species. In fisheries, the chief emphasis has been placed on whitefish and their spawning ecology. Investigations are also in progress on the migratory behaviour of walleye in Lake Athabasca and the ecology of *Trienophorus*, a tapeworm parasite, which infects whitefish and other species of commercial importance. Wildlife research has been involved with prairie deer populations and their fecundity under winter stress, evaluation of the effects of shooting hen as well as cock pheasants and with studies of Bighorn Sheep on the eastern slopes of the Rocky Mountains. Four scientific papers have been submitted for publication by staff members.

Research assistance was made available to the Department of Zoology, University of Alberta, at Edmonton, in the form of a cash grant for graduate student support, and a similar grant was made to the School of Wildlife Ecology, University of Wisconsin, which maintains a research station at Rochester, 75 miles north of Edmonton. In addition to direct grants, students from the Universities of Calgary and Lethbridge and the University of Alberta at Edmonton were employed as summer assistants to Regional Fishery and Wildlife Biologists in several areas.

In the field of Hunter Training, reorganization of the program resulted in transfer of the Hunter Training Officer to the Education and Information Section of the Department. Regional and District Fish and Wildlife Officers will continue their involvement with hunter training courses, supervision of examinations and with lectures to students.

Revenue receipts from licence sales was up more than 40 percent over the previous year, from under \$1.1 million to over \$1.4 million. Increased revenue was however, offset by expansion of regional services, particularly in the Fisheries and Wildlife sections. For the next two years, virtually no expansion of personnel or services is planned, while there is every indication that revenue will continue to rise at a rapid rate. From 1963 to 1966 inclusive, revenue was static at approximately \$1,000,000, but by 1969 it should be over \$2,000,000. The projected level of revenue in 1969 has resulted from more liberal provision of recreational opportunities with increased activity by hunters and anglers alike. The direct revenue picture is favorable for the foreseeable future, but the greatest impact of increased hunting and fishing will be felt in rural areas through increased non-resident angling and hunting. The importance of fishing and hunting to the general economy of non-urban areas will continue to increase, without the necessity for greatly increased expenditure, by the Fish and Wildlife Division.

Although this report in general is optimistic, there are areas of concern. Habitat, particularly in prairie and parkland areas, is continually being reduced by other land uses, such as injudicious clearing of trees and bush, by drainage of wetlands, and by poor use of stream banks. At the same time, there are still staff shortages, particularly at the technician and beginning Fish and Wildlife Officer levels. Fish and wildlife populations cannot exist without suitable habitat; programs cannot be administered without knowledgeable people.

FISHERIES

During 1967 the Fish and Wildlife Division completed the establishment of its regional organization. Fishery biologists were located in each of the six regions and a new position created, that of Senior Management Biologist, to supervise the work of the regional staff. R.J. Paterson, previously Regional Biologist for the Red Deer region, was appointed to this position. M.J. Paetz, Chief Fishery Biologist, obtained educational leave to begin his studies for a Ph.D. at the University of Alberta and R.J. Paterson filled this position on an acting basis during the period of his absence.

C.W. Scott, previously supervising commercial fishery operations in Southern Alberta, was appointed to the new position of Commercial Fishery Co-ordinator in Edmonton. His role is to regulate the operation of the province's commercial fisheries by coordinating the recommendations from the regions concerning seasons, limits and methods of fishing, with the requirements of the industry.

Bryant Bidgood, previously Regional Biologist for the St. Paul region, was appointed to the new position of Fishery Research Biologist in June, 1967. It is planned to develop a small research team which will carry out studies having direct application to improving fishery management practices in the province. It is essential to have such a team so that studies requiring the expenditure of concentrated effort and occupying longer time periods than are feasible at the regional level can be embarked upon. Several new studies were begun in 1967.

Towards the end of 1967 approval was received to begin a Sport Fish Capability Study program. This study forms a part of the Canada Land Inventory sponsored by A.R.D.A. and involves the classification of the lakes and streams of the province according to their ability to produce fish. It will necessitate extensive field work over a three-year period and will lead to the construction of a series of map overlays with coded ratings. The coordination of these results with those from other Canada Land Inventory studies will lead to more efficient land and water use planning for the future.

Biologists and fish culture staff attended and contributed to a number of meetings both in and out of the province during 1967-68. Particularly significant were the meetings of the American Fisheries Society, held in Toronto in September, 1967 and the Canadian Committee on Freshwater Fishery Research in Ottawa in January, 1968. With the establishment of the Freshwater Fisheries Institute in Winnipeg, under the Fisheries Research Board of Canada, a committee has been established to coordinate fisheries research activities on the Prairies. This committee held two meetings in 1967-68 and made some valuable progress in this field. Several staff members also attended a research seminar on "Salmon and Trout in Streams" held in Vancouver in February, 1968. Some significant research results were presented, certain of which may influence the future course of fishery management in Alberta.

REGIONAL OPERATIONS

1. LETHBRIDGE REGION

Gordon Haugen, previously in the Edson Region, assumed the duties of Regional Fishery Biologist in Lethbridge in July, 1967. He immediately embarked

upon a study of the Lake Sturgeon of the South Saskatchewan River. The study is designed to provide information on the distribution of this species, its growth rates, spawning and feeding habits. There has been no legal season for sturgeon in Alberta for many years and the results of this study will indicate whether it is feasible to take a small harvest of the species, possibly as a trophy fish.

A review of water flows in the Oldman River in relation to fishery management and pollution control was carried out and some proposals for reservoir management presented. A monitoring program to examine pesticide levels in the whitefish of irrigation reservoirs was also initiated. A program of habitat assessment adjacent to streams in the area was initiated. Some special attention was paid to the possible establishment of several small reservoirs for sport fish production along an abandoned canal right-of-way. Each of these studies is continuing.

2. CALGARY REGION

Gordon Bielby left Calgary in the spring of 1967 to return to England. Dennis McDonald, previously Assistant Biologist in the St. Paul region, assumed the duties of Assistant Biologist in Calgary in September, 1967. The position of Regional Biologist remained unfilled throughout the year.

An extensive fish kill occurred in the Bow River in August, 1967, which was apparently caused by a combination of low oxygen levels and high ammonia concentrations. Measures have been taken to ensure that such a kill should not occur again. Court action was taken against a major oil company for pollution of the Sheep River near Calgary. A program was initiated to evaluate public access to the major sport fishing streams in the Calgary region. Attention was first concentrated on the Bow River, and efforts will be made to improve public access wherever feasible.

3. RED DEER REGION

Melvin Kraft came to the division from Montana in February, 1968, to assume the duties of Regional Biologist. Carl Hunt continued as Assistant Biologist in that region.

Field work was completed on the first part of a study of the Lake Trout in Swan Lake, near Caroline. A completed report on this study is being prepared for the fall of 1968.

Winter creel census studies on Pigeon Lake indicated that the harvest of whitefish by anglers did not exceed 17,000 pounds. Since the present commercial fishery does not harvest the potential production from this lake there would appear to be, as yet, no conflict between the two groups of fishermen.

An experiment in artificial circulation was carried out at Mitchell Lake - a method of winter kill prevention utilizing an air compressor during the fall months. Some success was achieved, but failure of the equipment prevented a complete evaluation of the method.

Evaluation of Walleye introductions in several lakes indicated that survival from these plants was relatively low. Reproduction of introduced stock was found only in Pine Lake. No Walleye were recovered from Forestburg Reservoir and limited numbers of introduced stock from Sylvan Lake.

Kokanee planted in Twin Lakes, near Rocky Mountain House, and Phyllis Lake, have shown slow growth rates, but survival was good. None have been recovered from Twin Lake, near Winfield.

A study of Elk Creek, in the Clearwater Forest Reserve, was continued, as part of an evaluation of current stream management policies. An evaluation of stream bank habitat was carried out in the Prairie Creek drainage.

Creel census studies of angler success in lakes and streams in the Clearwater Forest Reserve indicated that 45% of parties coming to the Reserve in July and August did so primarily to fish. Over 75% of the angler-hours were spent on streams with a success rate of 0.6 fish/hour. Success on lakes at this season was only 0.25 fish/hour.

Survey of lakes in the area was continued, with attention being paid to Buffalo Lake, Chain Lakes and several small lakes in the Breton area.

4. EDSON REGION

Gordon Haugen left the region in July, 1967 to take up duties in Lethbridge. Charles B.J. Lane joined the staff in October as Regional Biologist, coming to us from the Saskatchewan Department of Natural Resources.

Work continued on the Tri-Creek Watershed Project, a study of the effects of different methods of pulpwood harvest upon three selected small watersheds. Access road construction was completed and a research project on the aquatic invertebrates of the streams was begun by a graduate student from the University of Alberta. This study is a cooperative effort by several provincial and federal agencies. The year of 1967 marked the second year to the pre-extraction phase of a 15 year study.

Approval was received for a \$135,000 A.R.D.A. project to remove the native fish populations in a series of lakes in the region prior to the introduction of trout. This project will extend for a five year period, the first lake receiving treatment in 1968.

Monitoring studies were initiated in Lake Wabamun to determine the effect of the introduction of warm water from the power plant upon the biology of the lake. Surveys were carried out on several lakes in the Grande Cache area, an area at present undergoing significant industrial expansion.

Kokanee introduced to Chickako Lake yielded returns to winter anglers. The growth rate here was better than that in other lakes stocked in Central Alberta.

5. ST. PAUL REGION

Michael Robertson, an M.Sc. graduate from the University of Alberta, assumed the duties of Regional Biologist in September, 1967.

A socio-economic study of the sport fishery of Moose Lake, near Bonnyville, was continued in 1967. By means of questionnaires and creel census valuable information was accumulated on angler harvest, types of angler-use, value of the sport fishery to the local community and angler preference, both in terms of species and types of fishing. A tagging program carried out in conjunction with the study yielded valuable data on fish movements.

An experiment was carried out on Jackfish Lake, near Myrnam, to determine the value of snow-clearing in strips during late winter for the prevention of winterkill. Indications are that such action can be beneficial in the absence of white or 'flood' ice, which reduces light penetration.

An investigation of poor angling success in Mayfair Park Children's Pond in Edmonton showed the presence of large numbers of an eye fluke (*Diplostomum*), which was causing blindness in the fish. Recommendations were made to prevent a recurrence of this situation.

Surveys were carried out on Touchwood Lake, Marie Lake and several small lakes in the Vermilion and Boyle areas.

6. PEACE RIVER REGION

Frank Bishop, a M.Sc. graduate from the University of Alberta, assumed the duties of Regional Biologist in September, 1967. Previously this region had been a part of the Edson region.

RESEARCH SECTION

A study of spawning Walleyes at Richardson Lake, in the Athabasca River delta area, showed that these fish originated in Lake Athabasca. For this reason the commercial fishery for Walleyes in Richardson Lake was discontinued. The results of the study indicated that possible reductions in water level resulting from the filling of the Bennett Dam on the Peace River in British Columbia, could seriously affect this fish population.

Research began on a study of infestations of whitefish and cisco by the parasite *Trienophorus* in two adjacent lakes in north-east Alberta. This parasite has a significant effect upon the marketability of these two species and it is hoped from this study to determine the reasons for different rates of infestation in different lakes.

A.R.D.A.

A program sponsored jointly by the federal government and the Alberta Northern Development Council continued in 1967. Lake and stream surveys have been carried out to determine the potential of these waters for sport and commercial fisheries and their potential economic benefit to the northern communities. Surveys completed in 1967 were:

Six small lakes in Twp. 105-5-W4

Larocque Lake (Twp. 105-5-W4)

Barber Lake (Twp. 105-6-W4)

Brander Lake (Twp. 109-1-W4)
 Agar Lake (Twp. 106-1-W4)
 Rene Lake (Twp. 104-1-W4)
 Legend Lake (Twp. 97-19-W4)
 Namur Lake (Twp. 97-17-W4)
 Gardiner Lakes (Twp. 98-16-W4)
 North and South Wabasca Lakes (Twp. 81-26-W4)
 Peerless Lake (Twp. 88-5-W5)
 Maybelle River and its tributaries
 Mikkwa River
 Namur River
 Ells River
 Willow River

FISH CULTURE AND STOCKING

Total production of hatchery trout at Calgary and the Raven Rearing Station, at 3,053,583, was somewhat lower than in 1966. The bulk of the production was stocked in lakes and reservoirs, with smaller quantities going to beaver dams and small ponds (Table 1). A breakdown of the hatchery production by species is given in Figure 1.

TABLE I

****NUMBERS OF HATCHERY TROUT STOCKED IN
VARIOUS SITUATIONS IN ALBERTA FOR PERIOD 1962-67**

Year	Small Ponds*	Beaver Dams	Lakes and Reservoirs	Total
1962	3,960	308,000	1,963,725	2,275,685
1963	33,876	256,673	1,741,899	2,032,448
1964	77,550	186,077	1,637,845	1,901,472
1965	18,811	230,737	2,226,052	2,475,600
1966	20,768	246,306	3,480,490	3,747,564
1967	23,915	199,575	2,699,128	2,922,618

* Over-yearling trout stocked for fishing during the year of planting.

** Does not include introductions of new species into streams.

Notable among the introductions were Deadfish (Forester's) Reservoir, in the Brooks District, and Blood Indian Reservoir, in the Oyen District. These new reservoirs, first planted in 1966, have already produced some excellent fishing. Similar results are expected from Chain Lakes Reservoir, in the Claresholm District, first planted in 1967.

Kokanee were introduced to Summit Lake, in the Pincher Creek District, and Narrow Lake, in the Athabasca District. The value of this species in Alberta's sport fishery is as yet not clearly established.

Rainbow Trout were introduced to Grist Lake, north of Cold Lake, where it is hoped to establish a self sustaining population.

Lake Trout were stocked in Touchwood Lake (Twp. 67-10-W4) in an attempt to re-establish a population which previously existed, probably eliminated by commercial fishing gear. Lake Trout were also stocked in Cold Lake to assist the recovery of that species in the lake. It is hoped to bring the Lake Trout population back to former levels, so that it will support a satisfactory sport fishery.

In addition to direct hatchery production, introductions of warm-water fish included 2,005,200 Walleye eyed-eggs, 515 adult Walleye, 175 adult pike and 218,300 perch.

Alberta's hatchery facilities have, in recent years, been operating at maximum capacity. A preliminary study was carried out in 1967, to determine the most suitable site for a new hatchery facility. Such a facility would be of more modern design and capable of expansion to meet the demands of a growing population. It is hoped that construction of such a facility can begin within the near future.

GAME FISH FARMS

Inspections were made on a number of potential private and commercial game fish farm sites at the request of the property owners. The number of game fish farm licences issued is shown in Table 2.

COMMERCIAL FISHERIES

Commercial fish production did not increase in the current fiscal year, but the composition of the species caught changed, with an increased production of whitefish which resulted in a corresponding increase in returns to fishermen and value as marketed.

A record of commercial fish production from the fiscal years 1947-48 to 1967-68 is presented in Figure 3.

Landings of Lake Whitefish are presented for the same period as above in Figure 4.

Landings of Walleye from the fiscal years 1937-38 to 1967-68 are shown in Figure 5.

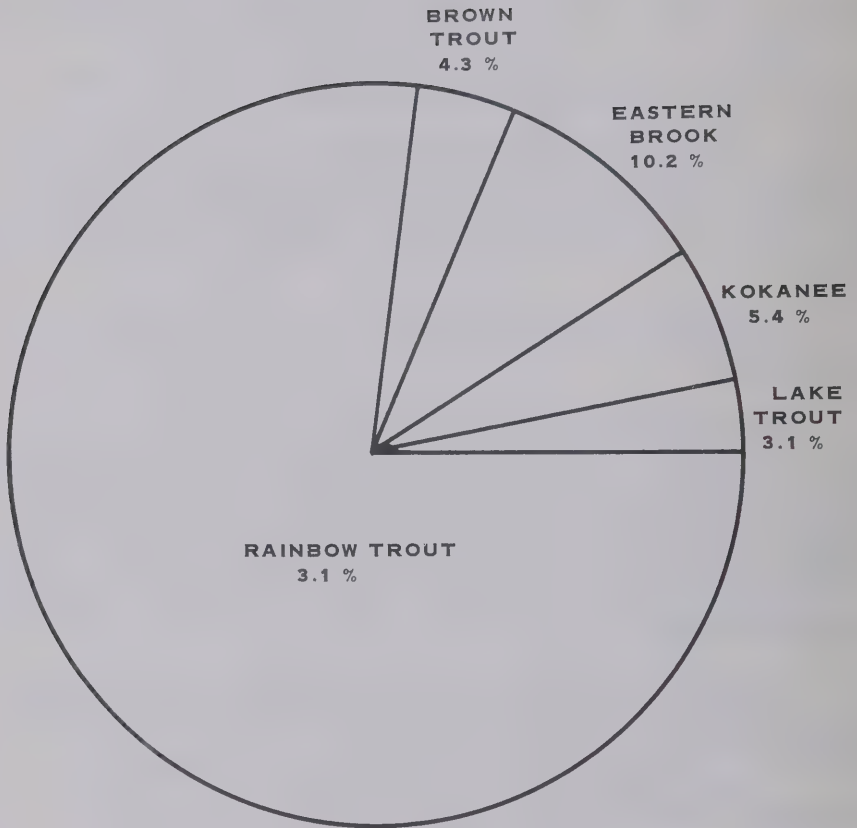


FIGURE 1. GRAPHIC REPRESENTATION OF HATCHERY PRODUCTION BY SPECIES IN 1967.

FIGURE 2 ANGLING LICENCE SALES IN ALBERTA 1958-1967

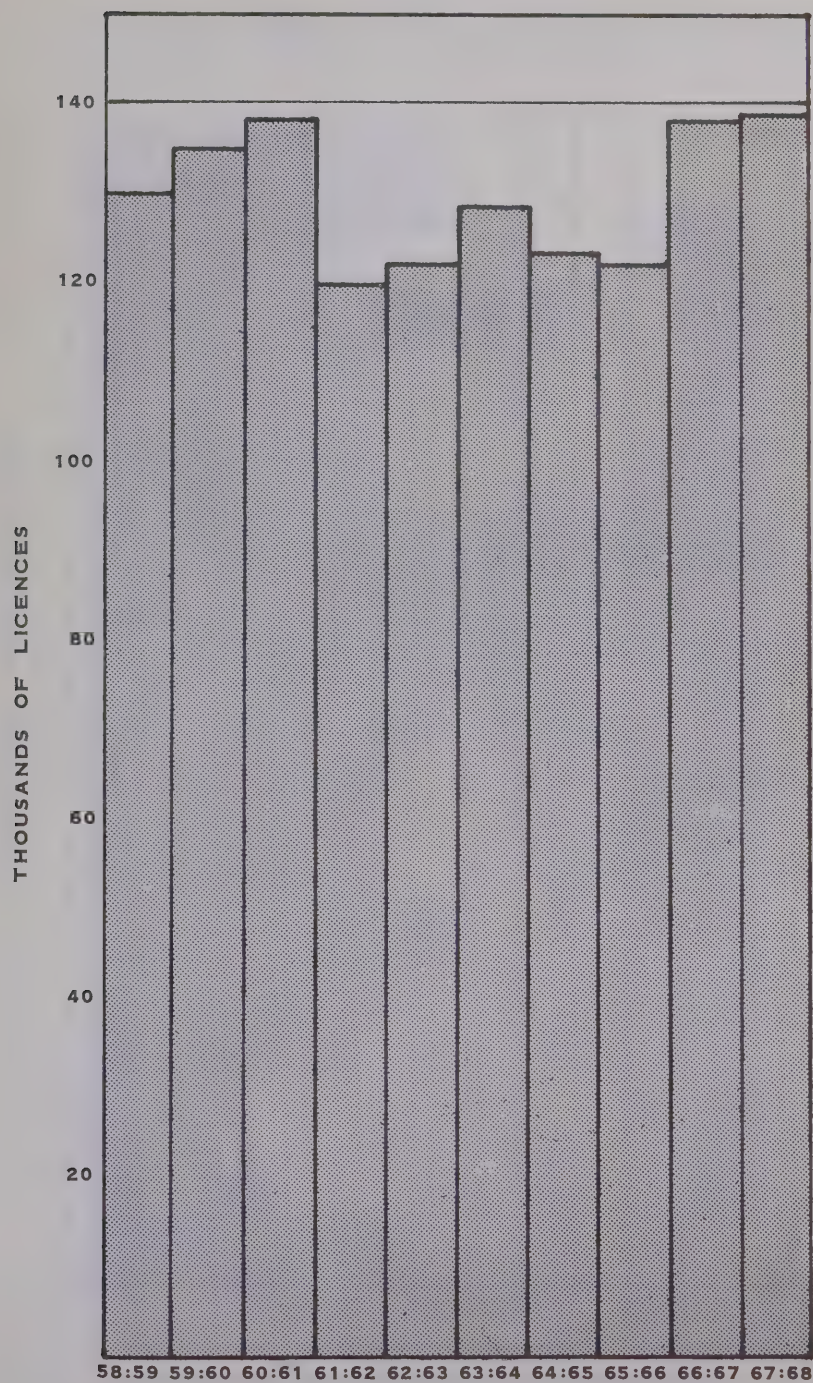


FIGURE 3
PRODUCTION OF COMMERCIAL FISH IN ALBERTA 1947 - 68.



FIGURE 4. COMMERCIAL PRODUCTION OF LAKE WHITEFISH IN ALBERTA 1947-68.

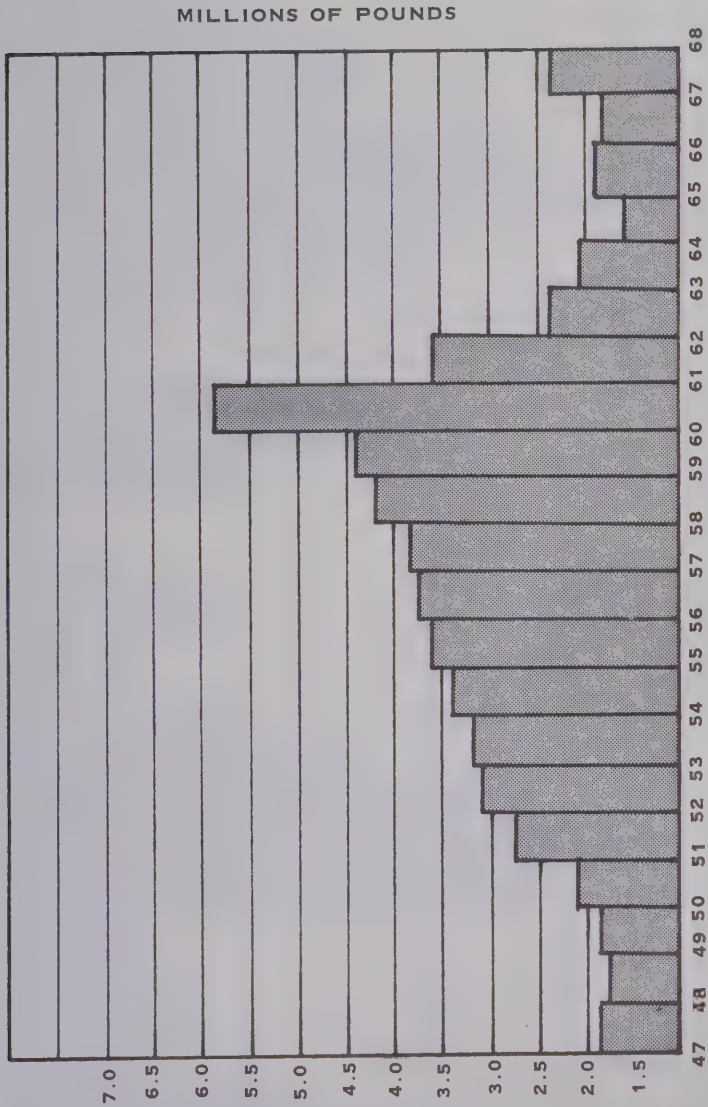


FIGURE 5 COMMERCIAL PRODUCTION OF WALLEYE IN IN ALBERTA
1937-68 .

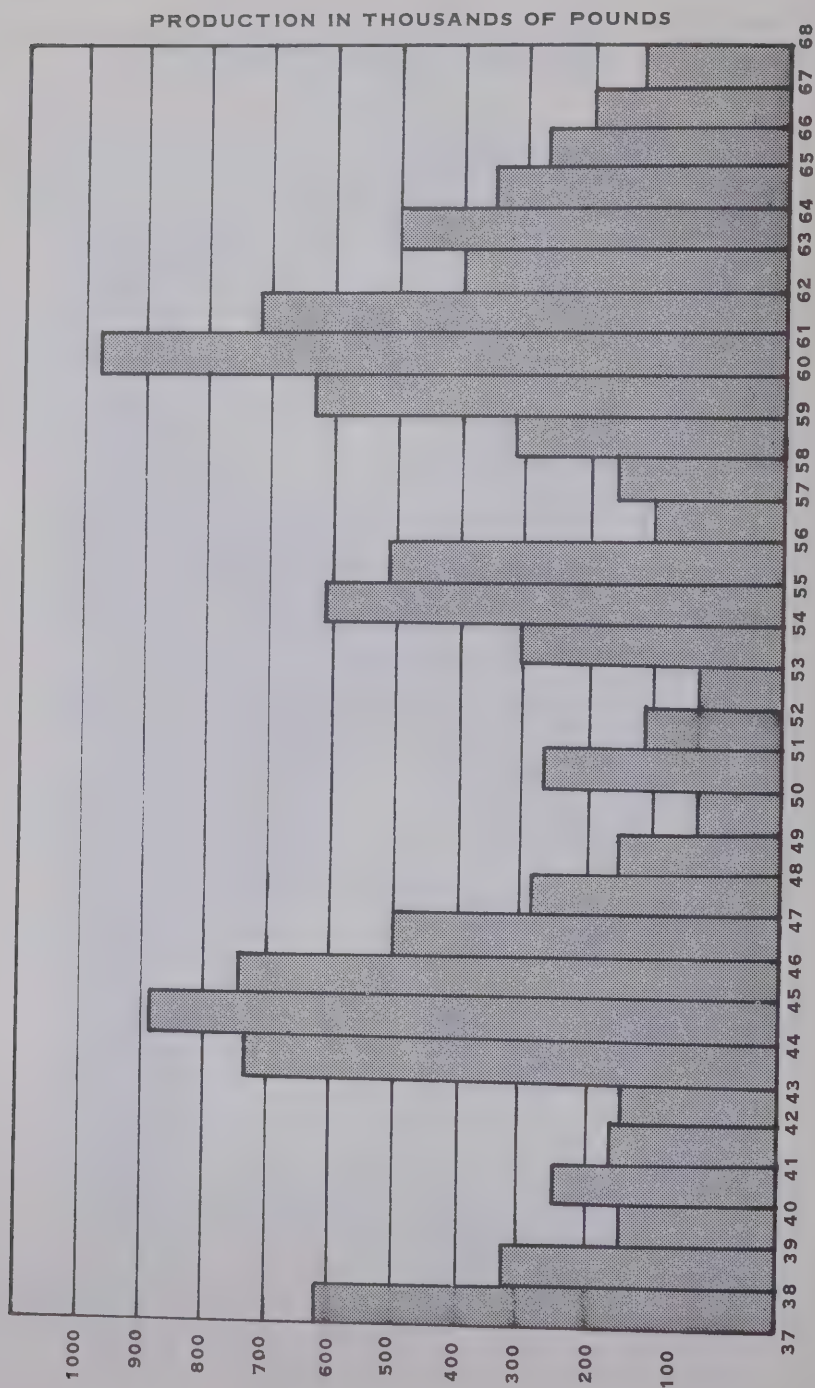


TABLE 2. SALES OF LICENCES - FISHERIES

Kind	1963-64 No.	1964-65 No.	1965-66 No.	1966-67 No.	1967-68 No.
Angling Licences	129,244	124,747	122,537	133,092	136,693
Special Licences to take Fish by Spearing	53	76	87	141	147
Commercial Licences	148	73	39	----	----
Fisherman's Commercial Licences	4,969	4,138	4,468	4,360	4,758
Domestic Licences	48	39	63	51	78
Fish Dealer's Licences	78	55	53	51	70
Commercial Game Fish Farm Licences	9	7	6	6	5
Private Game Fish Farm Licences	8	8	20	26	37
Total	134,557	129,143	127,273	137,727	141,788

TABLE 3. COMMERCIAL PRODUCTION OF FISH BY SPECIES

Species	1963-64 Lbs.	1964-65 Lbs.	1965-66 Lbs.	1966-67 Lbs.	1967-68 Lbs.
Whitefish	2,095,419	1,506,144	1,918,912	1,836,987	2,422,379
Lake Trout	19,454	9,459	7,623	3,528	2,787
Walleye	628,597	465,748	372,576	286,286	221,087
Perch	46,899	320,990	646,996	274,509	178,844
Pike	1,341,749	958,922	1,248,792	1,224,664	944,510
Tullibee	4,274,485	8,714,348	4,402,771	6,492,126	5,859,370
Ling - Mixed fish	486,450	319,604	180,597	300,145	588,414
Suckers			115,567	88,418	220,016
Goldeyes	6,959	1,385	391	1,807	284
Total	8,900,012	12,296,600	8,894,225	10,508,470	10,437,691

	Weight Lbs.	Value to Fishermen \$	Value as Marketed \$
Totals for year 1963-64	8,900,012	703,667.20	1,174,476.66
Totals for year 1964-65	12,296,600	793,043.10	1,243,481.68
Totals for year 1965-66	8,894,225	720,886.32	1,188,319.17
Totals for year 1966-67	10,508,470	832,711.79	1,397,485.90
Totals for year 1967-68	10,437,691	874,525.89	1,559,976.04

TABLE 4. FISH EXPORTED FROM ALBERTA 1967-68 BY SPECIES

Species	Canadian Markets Lbs.	U.S.A. Markets Lbs.	Overseas Markets Lbs.	Totals Lbs.
Whitefish	480,866	811,537	30,000	1,322,403
Lake Trout	----	----	----	----
Walleye	90,959	63,648	----	154,607
Perch	37,261	93,657	----	130,918
Pike	217,310	37,283	----	254,593
Tullibee	112,455	120,256	----	232,711
Suckers	11,460	----	----	11,460
Total	950,311	1,126,381	20,000	2,106,692

TABLE 5. QUANTITIES AND VALUE OF FISH CAUGHT AND MARKED 1967-68

Species	Period	Weight (lbs.)	Value to Fishermen	Value as Marked
Whitefish.	April 1/67 to September 30/67	1,079,350	\$180,031.92	\$375,767.43
	Oct. 1/67 to December 31/67	302,047	59,069.09	122,393.66
	Jan. 1/68 to March 31/68	1,040,982	246,995.99	430,157.75
			2,422,379	\$486,097.00
Trout (Lake).	April 1/67 to September 30/67	2	1.50	1.50
	Oct. 1/67 to December 31/67	58	29.00	29.00
	Jan. 1/68 to March 31/68	2,727	1,361.90	1,363.50
			2,787	1,392.40
Walleye.	April 1/67 to September 30/67	176,918	25,987.63	72,780.48
	Oct. 1/67 to December 31/67	33,247	6,166.64	14,478.94
	Jan. 1/68 to March 31/68	10,922	3,030.83	5,236.38
			221,087	35,185.10
Perc.	April 1/67 to September 30/67	140,431	5,978.30	25,121.60
	Oct. 1/67 to December 31/67	25,555	2,523.90	6,575.92
	Jan. 1/68 to March 31/68	12,858	1,462.28	2,492.54
			178,844	9,964.48
Pike	April 1/67 to September 30/67	486,464	18,679.28	46,348.99
	Oct. 1/67 to December 31/67	216,671	15,497.49	23,030.21
	Jan. 1/68 to March 31/68	241,375	20,274.67	33,532.78
			5,859,370	54,451.44
Tullibee	April 1/67 to September 30/67	3,468,590	144,848.68	266,699.41
	Oct. 1/67 to December 31/67	1,945,678	89,254.73	110,274.49
	Jan. 1/68 to March 31/68	445,102	21,009.08	29,849.38
			5,859,370	255,112.49
Mixed Fish.	April 1/67 to September 30/67	356,766	11,536.25	12,656.83
	Oct. 1/67 to December 31/67	81,911	2,488.85	2,630.24
	Jan. 1/68 to March 31/68	370,037	18,297.88	18,555.01
			808,714	32,322.98
The above includes Ling and Suckers as well as 284 lbs. Goldeye from Lake Athabasca for the period April 1st to September 30th, 1967.			10,437,691	\$874,525.89
Value to Fishermen				\$42.60
Value as Marked				\$113.60
				\$928,318.84
				\$1,559,976.04

WILDLIFE

UPLAND GAME BIRDS

Native grouse populations were excellent throughout most of the province in 1967, with the most dramatic increases being in the northern areas. Spring breeding population indices for all species of grouse were above the 1966 levels. Brood production and survival was good in most areas which resulted in improved hunter success in the fall.

Sharptail Grouse hunting declined somewhat in the parkland and east-central prairie regions. This is believed to be a result primarily of the extremely dry conditions which prevailed there throughout the summer causing changes in bird distribution. Late winter bird populations there appeared normal.

Sharptail Grouse populations continued to show improvement in the western foothills areas.

Hungarian Partridge remained relatively unchanged throughout much of their range with some increases evident on the northern fringe of their distribution. Generally, partridge populations have remained low in heavily cultivated areas with other areas remaining unchanged or slightly improved.

Pheasant numbers continued poor in all but a few local areas. The small recovery realized in 1966, was lost again as a result of extremely severe spring conditions in 1967. Late spring snow and cold temperatures throughout the prime pheasant range resulted in low nesting success. Climatic conditions through the early winter of 1967-68 look encouraging for some recovery for the 1968 season.

Pheasant populations north of Highway No. 1 continued very low.

The second experimental hen pheasant season was held in Southern Alberta in 1967. This season is designed to test what effect hen pheasant hunting has on pheasant population trends. A total of 244 unbanded hens and 182 cocks were taken by hunters in 1967, compared to 233 hens and 150 cocks in 1966. Evidence to date indicates that the hunting of hens on a limited basis is not causing the population to decline. A final report with results and recommendations should be available late in 1968.

1967 PHEASANT RELEASES

Release Area	No. Hens	No. Cocks	Total
Daysland	192	192	384
Kelsie	192	192	384
Stettler	96	96	192
Haynes	48	48	96
Sylvan Lake	48	48	96
Camrose	192	192	384
Sturgeon River	192	192	384
Olds	112	224	336
Irricana	108	14	122
Calgary	48	48	96
Strathmore	80	556	636
Camrose * Roundhill		384	384
*Brooks (Cowoki)	90	90	180
*Scandia -- Rainier	700	675	1375
*Antelope Creek (Melenistic)		32	32
Total	2210	3107	5317

1967 NUMBER OF PHEASANT RELEASED

No. of Pheasants Released	Hens	Cocks	Total
Spring Release (Adults)	637	46	683
Fall Release (Juvenile)	2210	3107	5317
Total	2847	3153	6000

The first Sage Grouse season to be declared in Alberta for many years was conducted under a special permit system. A total of 850 permits were made available for which 408 acceptable applications were received. Approximately 120 persons who received permits did not hunt during the season. A total of 250 grouse were taken by hunters who found the birds to be much more wary, sporting and edible than they had expected. The season will continue in 1968.

The introduced population of turkeys in the Cypress Hills area remained relatively static throughout 1967. The secondary transplant of these birds to the Porcupine Hills in the western foothills appears to have become established but unfavorable nesting and wintering conditions since 1964 have prevented any dramatic increases.

WATERFOWL

Water and wetland conditions in Alberta were average or better in the spring of 1967, which resulted good production in all local nesting waterfowl. Drought conditions which prevailed throughout the summer caused water quality to decline rapidly but most areas retained sufficient water to allow ducks to reach maturity.

In spite of reasonable production the scarcity of water by fall caused ducks to change their normal distribution and to form large flocks early in the year and hunter success was reduced from 1966.

Local goose nesting and production was near normal but arctic nesting geese which migrate through the province did not do well as a result of unfavorable spring weather conditions. Goose hunter success was also reduced as a result of poor water distribution and a large portion of the flocks being comprised of more wary adult birds.

1967 ESTIMATED PROVINCIAL BIRD GAME HARVEST

Species	Resident Harvest
Ducks	563,298
Geese	60,443
Pheasants	92,138
Hungarian partridge	105,042
Sharp-tailed grouse	153,596
Ruffed grouse	145,092
Sage grouse	272
Others	2,514
Total	1,122,395

The Canada Goose transplanting program initiated in 1963 as a joint venture between the Fish and Wildlife Division and Ducks Unlimited (Canada) was continued in 1967. One hundred and eighty goslings were released on potential new nesting areas bringing the total geese transplanted to date to 869.

Financial support was given to a student biologist throughout the summer to study the behavior and success of transplanted birds. His study will continue in 1968.

Only one new release area received goslings in 1967, as it was considered desirable to fully assess the project before possible further expansion.

BIG GAME

Deer production generally was lower than normal in 1967, primarily as a result of poor winter and spring weather conditions. Prairie and parkland deer populations suffered most severely. Mule Deer populations have continued a slow decline in the prairies and parklands regions as they have done throughout much of central North America in the past few years. The more wary and competitive White-tailed Deer has continued to hold its own and is still expanding its range, mainly in the northwestern regions.

Elk hunter success declined in 1967, as a result of the extremely dry and open fall which made the animals less available. Wintering populations of elk appeared near normal in most areas.

A lower than normal elk harvest was realized in the southern elk herds as light snowfall did not force the animals into accessible areas until after the hunting season.

The liberalized moose seasons in Northern Alberta (Big Game Zone 1) for the most part was successful in increasing total moose harvest and somewhat reducing hunting pressure in the south and central settled areas. The sale of 9,927 special non-resident moose licenses resulted in a harvest of 3,605 moose, bringing the total moose harvest to approximately 14,000 animals. Some added restrictions on non-resident moose hunters are contemplated for the coming year. In light of moose range conditions and current reproductive rates it is desirable that more moose be harvested but it is also necessary that more control of out-of-province hunters be attained.

1967 ESTIMATED PROVINCIAL BIG GAME HARVESTS

Species	Residents	Non-Residents	Total
Antelope	496	0	496
Big horn Sheep (Trophy)	128	0	128
Big horn Sheep (Non-trophy)	165	51	216
Mountain Goat	57	69	126

The special non-trophy sheep season was expanded in 1967, with the harvest increasing to 128 from 64 animals in 1966. We are now reaching the point in some areas where the effects of this season may become apparent. The non-trophy sheep hunters apparent selection for 1½ year old rams may necessitate regulations changes in the future.

Antelope populations continued to decline in 1967. High adult mortality and low fawn production resulted from the severe late spring storms experienced throughout most of the antelope range. A male only season was declared in an attempt to retain antelope hunting while at the same time allow for maximum herd recovery. The total population was estimated at 8,500 animals as compared to the 1964 population level of approximately 18,000. The issue of 1,005 permits resulted in the harvest of 496 bucks which was about one-quarter of the total bucks available.

An antelope license priority system was initiated in 1967, in an attempt to more equitably distribute licenses. Unsuccessful applicants received a colored 1968 application form which will give them a priority position in that year. It is hoped that this system will result in all interested parties receiving a license at least once in every two to three years. Priority application forms are not transferable.

PREDATOR CONTROL

Limited wolf control was attempted in some northern regions in an attempt to reduce livestock losses. Because of the scarcity of snow at the time of control all attempts were unsuccessful.

As in 1966, all evidence collected by divisional staff indicates that wolf populations are not suppressing his game populations and that big game ranges continue to show over-use. Some predator-livestock problems are developing in areas of marginal livestock production as wolf populations appear to be increasing.

CROWN LANDS

During the past year the division has become more involved with the disposition of Crown Lands and has become involved in Crown Land, land-use practices.

The Fish and Wildlife Division has become involved in recommending programs for land clearing on grazing leases and grazing reserves so that we are now able to make some headway in the protection and retention of wildlife habitat and populations. This has involved the northern area primarily and to a lesser degree the central and southern districts.

We have become involved in recommending the disposition of Crown Lands surrounding water bodies and thus are able to exert some influence on the retention and protection of waterfowl and furbearer habitat.

Our involvement has continued in the disposition of road allowance leases during the past year. These right-of-ways are very important in supplying bird cover in the prairies and foothills as well as supplying access to the public.

A more concerted effort in the area of land disposition and land management and development practices is required in the future if these areas are to continue to produce a wildlife resource.

ENFORCEMENT

The number of charges preferred by the Fish and Wildlife Division during the 1967-68 fiscal year was slightly lower than the previous year's total. Fire-arms infractions, once more, constituted the major part of the prosecution structure. This has been a consistent trend for the past several years. Of the 854 cases taken to trial, 21 were dismissed or withdrawn. This compares with 22 last year and 28 the previous period. Table 1 is a summary of the structure of convictions for the 1967-68 fiscal year.

Table 1

PROSECUTIONS		
	1966 - 67	1967 - 68
Investigations	925	890
Prosecutions	867	854
Convictions	845	833

Table 11

FREQUENCY OF VIOLATIONS RESULTING IN CONVICTIONS		
	1966 - 67	1967 - 68
Hunting		
Loaded firearm in motor vehicle	248 - 42.2%	274 - 44 %
Illegal possession of game	74 - 12.6%	78 - 12.5%
Unlawfully hunting in a closed season - area	51 - 8.7%	54 - 8.6%
Failing to wear scarlet clothing	17 - 2.9%	23 - 3.5%
No License	33 - 5.6%	54 - 8.6%
Fisheries		
No license	99 - 47.3%	73 - 43 %
More than one line, angling through ice, unattended line	62 - 29.6%	50 - 29.4%
Small mesh net	8 - 16.3%	5 - 13.1%

REVENUE AND EXPENDITURES:

Revenue is obtained primarily from hunting, angling, commercial fishing and fur dealers licenses, fur taxes, trapline registration and commercial fishing royalties.

Table 111

	\$ 1964-65	\$ 1965-66	\$ 1966-67	\$ 1967-68
Revenue Total	1,041,087.80	1,035,321.15	1,091,134.43	1,416,069.37
Expenditure Total	1,079,049.27	1,092,325.21	1,307,432.49	1,541,022.76

WILDLIFE DAMAGE FUND:

This was the fourth year of operation since the Wildlife Damage Fund was initiated. Under this plan an applicant is able to file a claim for damage and is required to pay a fee of \$25.00 for each quarter section or portion thereof. The number of claims filed for the 1967-68 period was significantly lower than in previous years. The excellent fall weather condition enabled farm owners to harvest grain much earlier than in past years. This resulted in 378 fewer claims for compensation.

Table 1V

	1965-66	1966-67	1967-68
Claims	531	477	99
Acreage Damage	21,188	17,358½	3,390
Settlements and Costs	\$219,407.97	\$169,939.93	\$ 43,143.22
Balance of Fund	\$ 95,110.95	\$130,279.56	\$336,051.95

Loss or Injury to Livestock
Caused by Hunters

This is the second year compensation for loss or injury to livestock was made available. The regulations were broadened to make claims available in Wildlife Management Units where a bird game or big game season is in force. Previously claims were only considered if a big game season was under way.

Table V

	1965-66	1966-67	1967-68
Claims	nil	73	59
Awards	nil	\$ 6,689.68	\$10,217.81

Public relations is an integral part of any effective enforcement program. This type of activity requires a considerable amount of personal talent and effort by the individual officer. During the period under review, officers of the division appeared at 459 public functions. In addition to these activities they participated in television and radio programming, completing a total of 158 radio broadcasts and four live telecasts.

GAME

COMPARISON OF THE NUMBER OF GAME LICENCES ISSUED

	1964	1965	1966	1967
Resident Bird Game Licences	86,671	76,880	64,219	68,703
Non-Resident (Alien) Bird Game Licences	959	796	854	1,399
Resident Big Game Licences	58,581	41,748	48,039	51,578
Non-Resident (Canadian) Big Game Licences	75	71	86	54
Non-Resident (Alien) Big Game Licences	455	554	631	429

GAME LICENCES

APRIL 1st, 1967 to MARCH 31st, 1968

	LICENCES	FEE	TOTAL AMOUNT
Wildlife Certificates	124,028	\$ 2.00	\$248,056.00
Resident Bird Game Stamps	68,703	2.50	171,757.50
Non-Resident (Canadian) Bird Game Stamps	4,773	5.00	23,865.00
Non-Resident (Alien) Bird Game Stamps	1,399	25.00	34,975.00
Resident Big Game Stamps	51,578	5.00	257,890.00
Non-Resident (Canadian) Big Game Stamps	54	75.00	4,050.00
Non-Resident (Alien) Big Game Stamps	429	150.00	64,350.00
Permits to Collect	46	Free	- - - -
Taxidermist's Licences	51	5.00	255.00
Guide's Licences	346	2.50	865.00
Game Farm Licences (Bird)	28	Various	290.00
Game Farm Licences (Big Game)	2	Various	150.00
Resident Trapper's Licences	3,248	3.00	9,744.00
Dog Trainer's Licences	14	Various	186.00
Resident Spring Bear Licences	865	5.00	4,325.00
Non-Resident Spring Bear Licences	36	25.00	900.00
Resident Sheep Stamps	1,285	7.50	9,637.50
Non-Trophy Sheep Stamps	339	5.00	1,695.00
Resident Goat Stamps	300	7.50	2,250.00
Resident Whitetail Deer Stamps	32,394	3.00	97,182.00
Non-Resident Whitetail Deer Stamps	190	15.00	2,850.00
Camp Wainwright Deer Stamps	151	3.00	453.00
Resident Mule Deer Stamps	38,835	3.00	116,505.00
Resident Caribou Stamps	380	7.50	2,850.00
Resident Sage Grouse Stamps	408	1.00	408.00
Resident Antelope Stamps	1,004	7.50	7,530.00
Non-Resident & Non-Resident (Alien) Special Stamps	9,968	25.00	249,200.00

CONVICTIONS UNDER THE GAME ACT 1967-68

Number of Convictions	833
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SALE OF FURS

Amount realized from the sale of furs during the period	
April 1st, 1967 to March 31st, 1968	\$ 5,688.86

TRAPLINE REGISTRATIONS

Number of Registered Traplines and Revenue	
April 1st, 1967 to March 31st, 1968 1921 @ \$10.00	\$19,210.00

FUR DEALERS' LICENCES, ETC.

APRIL 1st, 1967 to MARCH 31st, 1968

KIND	NUMBER	AMOUNT
Resident Fur Dealers' Licences to carry on business in a city and elsewhere than in a city	136	\$ 1,360.00
Non-Resident Fur Dealers' Licences to carry on business in the Province	2	200.00
Resident Travelling Fur Purchasing Agents' Licences	13	1,300.00
Furriers' Licences	10	100.00
Tanners' Licences	3	30.00

FUR TAX REVENUE

Amount Collected	\$90,896.96
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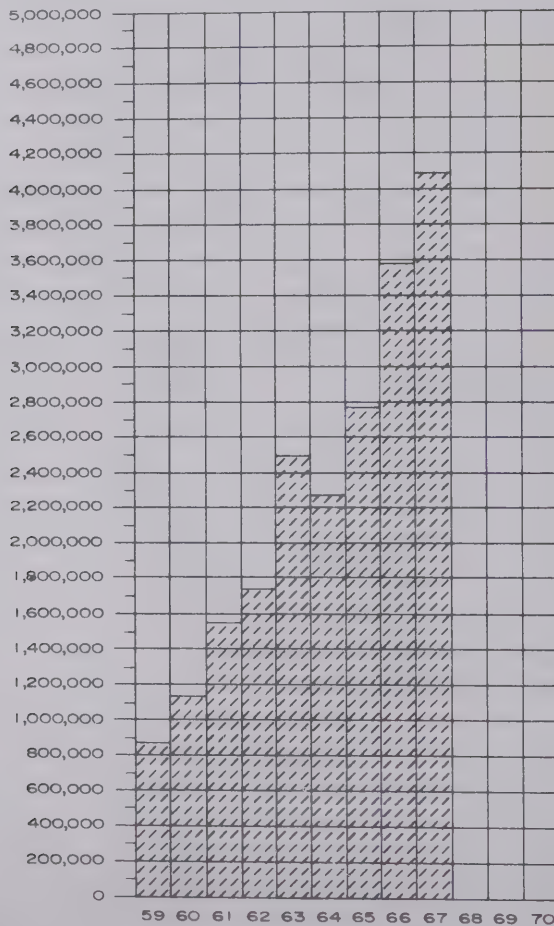
ALBERTA FUR PRODUCTION - SEASON 1967-68

(WILD FUR)

	TOTAL NUMBER OF PELTS	AVERAGE VALUE OF PELTS	TOTAL VALUE OF PELTS
Badger	431	\$ 3.50	\$ 1,508.50
Bear	273	13.75	3,753.75
Beaver	65,723	15.04	988,473.92
Ermine	40,811	.83	33,873.13
Fisher	425	12.92	5,491.00
Silver Fox	4	8.25	33.00
Cross Fox	44	3.25	143.00
Red Fox	165	3.82	630.30
White Fox	24	15.10	362.40
Blue Fox	1	6.50	6.50
Lynx	1,510	28.85	43,563.50
Marten	446	9.05	4,036.30
Mink	9,566	13.46	128,758.36
Muskrat	259,720	.78	202,581.60
Otter	265	21.70	5,750.50
Jack Rabbit	6,376	.28	1,785.28
Skunk	27	.36	9.72
Squirrel	487,139	.50	243,569.50
Coyote	12,173	6.32	76,933.36
Timber Wolf	271	24.75	6,707.25
Wolverine	36	27.25	981.00
	885,430		\$1,748,951.87

PROVINCIAL PARKS**REPORT OF THE DIRECTOR**
E.P. SHAVER

A growing number of Alberta residents and visitors to this Province are becoming aware of the recreational opportunities which are available in Alberta's Provincial Parks. Patronage has resulted in an increase of 14.6 percent over the previous fiscal year to an all time record of 4,081,452 day use patrons. During the past several years in which statistics have been compiled on tent and trailer campers in our parks, a pronounced up swing in the use of holiday type trailers over the use of regular tents has taken place. The number of permits issued for tents and trailer campers in our parks has also had a substantial increase during the year under review showing a 52 percent increase in trailer patrons and a 29 percent increase in tenters over the previous year.



TOTAL ATTENDANCE FOR ALL PROVINCIAL PARKS

To assist in meeting the needs of the public for outdoor recreational facilities the Provincial Parks Division during this year established two additional parks, one on Pigeon Lake (313 acres) and one on Moose Lake (1,719 acres). This increases the total number of Provincial Parks in Alberta to 44. In addition, substantial increases in area were added to already established parks at Miquelon Lake, Rochon Sands and Cross Lake.

A fourth wilderness area was established in the Province during 1967. This area, known as the Ghost River Wilderness Area, was established under the Provincial Parks Act this year and comprises an area of 59 square miles or 37,850 acres.

During the year the following items were supplied to our Provincial Parks:

800 Large Picnic Tables

140 Small Picnic Tables

90 Sanitary Units

60 Benches

The following projects were completed in the various parks:

New Construction (Department of Public Works)

Washroom - Wabamun Lake Provincial Park

Phase I of Tillebrook Trans-Canada Campsite and Picnic Area Development

New Construction (Provincial Parks)

Phase I of Water System - Pembina River, Rochon Sands

Water System - Moonshine Lake, Williamson, Winagami Lake

Phase II of Water System at Little Bow

Phase I of Campground Development at Miquelon Lake, Moonshine Lake, Williamson and Winagami Lake

Preparation of Ski Hill - Cypress Hills

Water Wells

Dillberry Lake

Long Lake

Little Fish Lake

O'Brien

Red Lodge

Willow Creek

Winagami Lake

Woolford

Road Construction

Phase I Road Construction in Sir Winston Churchill

3 Miles Dust Free Road - Cypress Hills

Rebuilding Road and Causeway - Cypress Hills

Workshop	Washroom
Beauvais Lake	Cypress Hills
Lac Cardinal	
Little Bow	
Moonshine Lake	Radio Tower
Sir Winston Churchill	
The Vermilion	Bow Valley
Wabamun Lake	
Storage Building	Steel Fire Tower
Cypress Hills	Cypress Hills
Residences	
Bow Valley	Office
Cypress Hills (2)	
Long Lake	Red Lodge
Moonshine Lake	
Pembina River	
Residence Renovations	Weather Station
Big Hill Springs	
Cross Lake	Cypress Hills
Dillberry Lake	
Entrance	Charging Stations
Garner Lake	
Staff Quarters (Temporary Personnel)	Bow Valley Trans-Canada Campsite
Aspen Beach	Wabamun Lake
Bow Valley	Power Installations
Cypress Hills	Bragg Creek
Miquelon Lake	O'Brien
Wabamun Lake	Pembina River
Winagami Lake	Sir Winston Churchill
Greenhouse	Willow Creek
Aspen Beach	Woolford
Picnic Shelters	Changehouse
Cypress Hills (3)	Little Fish Lake
Kinbrook Island	Piers
Little Bow	
Taber	Miquelon Lake
Woolford	Park Lake

During the year there was a continuation of the water study report to supply information on park water supply, future requirements and information regarding the care and maintenance of water wells.

A complete geological report was furnished in order to provide a guide to the geology of Cypress Hills Park.

Parks Master Planning Project

During the summer of 1967 a Master Planning Project was conducted by the Parks Planning Section of the Provincial Parks Division. The program was staffed with summer employees and included 11 Landscape Architect students, 4 Geography students and 2 Drafting students.

The Geography students made physical assessments of the established and operating parks. Their assessments are included in the master plans for all parks surveyed in the program for 1967.

The Landscape Architect students were necessarily chosen from United States' colleges because third year students were not available in Canada.

Master Plans form the basis for development of new parks and re-development of operating parks.

March 31, 1968 saw the completion of the Municipal Aid Grant Program administered by the Provincial Parks Division to assist in the development of rural parks in Improvement Districts, Municipal Districts and Counties.

The final figures regarding this program are as follows:

Total number of developments assisted	217
Total grants paid	\$359,624.80
Funds for approved but not completed projects as of March 31, 1968	\$ 19,458.00
Grant Funds not applied for	\$ 47,559.20

Grants paid represent 84 percent of eligible municipalities leaving a balance of 16 percent of eligible Improvement Districts, Municipal Districts and Counties who had not made application or had not completed their program as of March 31, 1968. There was a total of 4.5 percent of those committed for payment who were not paid as of March 31, 1968 leaving a balance of 11.5 percent of total grants not applied for.

STATEMENT OF REVENUE AND EXPENDITURE IN RESPECT OF
PROVINCIAL PARKS
FOR YEAR ENDING MARCH 31, 1968

PARK	REVENUE RECEIVED BY PARKS	EXPENDITURE BY PARKS
General Administration	\$ - -	\$ 186,363.23
Mobile Equipment	- -	211,120.32
Salaries	- -	423,299.01
General Equipment	- -	2,691.80
Workshop	- -	81,211.27
Warehouse	- -	98,373.41
Electrical Supplies	- -	19,550.00
Plumbing Supplies	- -	18,379.38
Historical Sites	1.00	1,775.43
Contingency Projects	- -	14,532.25
Miscellaneous Equipment	- -	33,048.34
Equipment Repair	- -	51,290.38
Aspen Beach	8,283.78	35,324.13
Beauvais	737.64	27,938.14
Big Hill Springs	- -	9,102.50
Big Knife	121.50	11,595.17
Bow Valley	5,727.69	34,346.66
Bow Valley Trans Canada	- -	7,203.74
Bragg Creek	- -	2,294.44
Crimson Lake	2,353.64	34,485.37
Cross Lake	64.00	9,513.21
Cypress	30,980.31	126,092.30
Dillberry	816.61	9,098.27
Dinosaur	347.00	31,861.40
Entrance	50.00	12,335.92
Garner Lake	38.59	18,050.60
Gooseberry Lake	180.00	11,598.24
Kinbrook	1,606.00	18,197.04
Iac Cardinal	12.00	8,919.01
Little Bow	1,507.00	19,309.16
Little Fish Lake	- -	3,230.28
Long Lake	2,053.50	33,992.50
Lesser Slave Lake	6.00	8,945.10
Ma-Me-O Beach	- -	5,001.64
Miquelon Lake	3,789.90	43,246.29
Moonshine Lake	26.00	12,596.04
O'Brien	- -	7,490.90
Park Lake	1,062.50	22,403.99
Pembina River	868.00	10,475.61
Red Lodge	857.00	10,987.38
Rochon Sands	27.00	15,823.25
Saskatoon Island	516.75	10,698.17
Taber	5.00	10,879.09
The Vermilion	1,262.29	16,966.00
Thunder Lake	16.00	18,095.95
Tillibrook	- -	845.00
Wabamun	4,781.32	60,740.48
Williamson	131.00	12,386.26
Willow Creek	- -	6,788.26
Winagami Lake	1,096.00	17,641.67
Woolford	- -	9,518.51
Writing on Stone	246.66	9,777.80
L400V - ARDA Land Inventory	- -	69,821.62
	\$69,571.68	\$1,987,251.91

ALBERTA PARKS FACILITIES CHART

CAMPING															
FOR YOUR PLEASURE AND ENJOYMENT															
PRIMARY VALUES															
		SCENIC	HISTORICAL	RECREATION	WARDEN	PICNICKING	CONFECTIONERY	PLAY GROUNDS	SWIMMING	BOATING	BOAT RENTAL	FISHING	TENTING	TRAILER PARKING	ELECT. OUTLETS
NAME OF PARK	AREA IN ACRES														NEAREST CITY OR TOWN
ASPEN BEACH	232.14		●	w	x		x	x	x	x	x	x	x		LACOMBE
BEAUVAIS LAKE	786.19	●	●	w	x		x	x	x	x	x	x	x		PINCHER CREEK
BIG HILL SPRINGS	62.94	●	●	w	x		x					x	x		COCHRANE
BIG KNIFE	731.50			w	x	x	x		x		x	x	x		FORESTBURG
BOW VALLEY	2309.36	●	●	w	x							x	x	x	SEEBE
BRAGG CREEK	305.20			w	x										CALGARY
CRIMSON LAKE	7878.29			w	x	x	x	x	x			x	x	x	ROCKY MTN. HOUSE
CROSS LAKE	4126.05			w	x	x	x	x	x	x	x	x	x	x	FAWCETT
CYPRESS HILLS	49620.00	●	●	w	x	x	x	x	x	x	x	x	x	x	MEDICINE HAT
DILLBERRY LAKE	219.83			w	x	x	x	x	x		x	x	x		PROVOST
DINOSAUR	22072.40	●	●	w	x		x					x	x		PATRICIA
ENTRANCE	6617.50	●	●	w	x		x	x	x		x	x	x		HINTON
GARNER LAKE	146.55			w	x	x	x	x	x	x	x	x	x		SPEDDEN
GOOSEBERRY LAKE	128.00			w	x	x	x	x	x			x	x	x	CONSORT
HOMMY	16.43			UNDEVELOPED											BEAVER LODGE
JARVIS BAY	215.89			UNDEVELOPED											SYLVAN LAKE
KINBROOK ISLAND	95.00			w	x	x	x	x		x	x	x	x		BROOKS
LAC CARDINAL	320.40			w	x		x	x	x			x	x		BERWYN
LESSER SLAVE LAKE	17852.26			UNDEVELOPED											SLAVE LAKE
LITTLE BOW	272.16			w	x	x	x	x	x	x	x	x	x		CHAMPION
LITTLE FISH LAKE	151.21			w	x		x	x	x			x	x		DRUMHELLER
LONG LAKE	1726.47			w	x	x	x	x	x	x	x	x	x		NEWBROOK
MA-ME-O BEACH	4.00			w	x		x	x	x	x					WETASKIWIN
MIQUELON LAKE	883.79			w	x	x	x	x	x			x	x		CAMROSE
MOONSHINE LAKE	1922.00			w	x	x	x	x	x			x	x		SPIRIT RIVER
MOOSE LAKE	1719.00			UNDEVELOPED											BONNYVILLE
O'BRIEN	21.80			w	x		x					x	x		GRANDE PRAIRIE
PARK LAKE	184.29			w	x	x	x	x	x		x	x	x		LETHBRIDGE
PEMBINA RIVER	408.76			w	x		x					x	x	x	ENTWISTLE
PIGEON LAKE	313.00			UNDEVELOPED											WETASKIWIN
RED LODGE	158.97			w	x		x					x	x		BOWDEN
ROCHON SANDS	158.00			w	x		x	x	x	x	x	x	x		ERSKINE
SASKATOON ISLAND	251.34			w	x		x	x	x			x	x		GRANDE PRAIRIE
SIR WINSTON CHURCHILL	591.40			UNDEVELOPED											LAC LA BICHE
TABER	127.01			w	x	x	x					x	x		TABER
THE VERMILION	1929.33			w	x		x	x	x		x	x	x	x	VERMILION
THUNDER LAKE	513.67			w	x	x	x	x	x		x	x	x		BARRHEAD
TILBROOK	180.96			UNDEVELOPED											BROOKS
WABAMUN LAKE	692.38			w	x	x	x	x	x		x	x	x	x	WABAMUN
WILLIAMSON	44.62			w	x	x	x	x	x		x	x	x		VALLEYVIEW
WILLOW CREEK	75.60			w	x		x						x		STAVELY
WINAGAMI LAKE	2952.00			w	x	x	x	x	x		x	x	x		McLENNAN
WOOLFORD	86.51			w	x		x					x	x		WOOLFORD
WRITING-ON-STONE	1055.10	●	●	w	x		x					x	x		MILK RIVER

REFERENCE:

x - FACILITIES PROVIDED

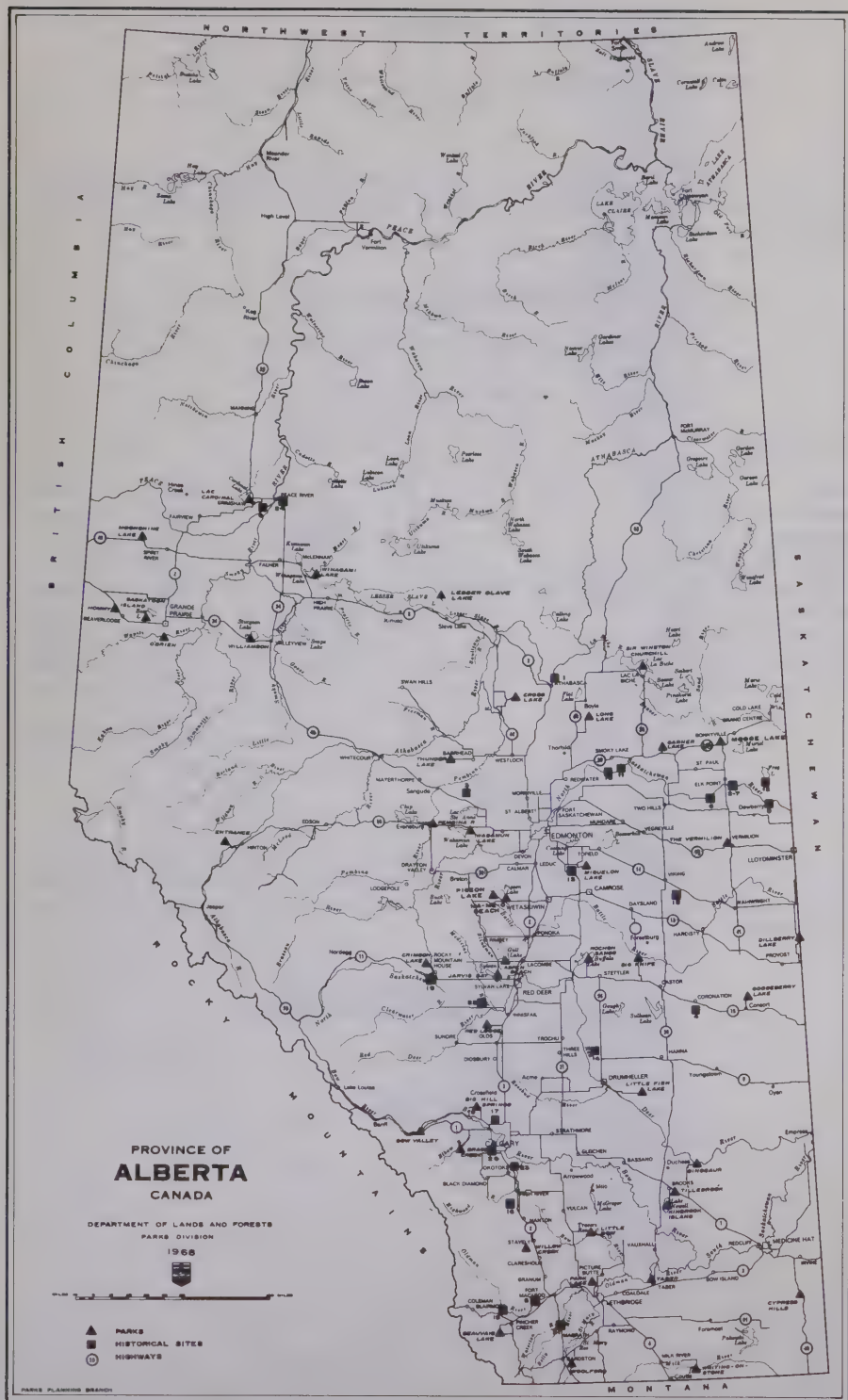
w - WARDEN

(FEES CHARGED FOR OVERNIGHT CAMPING)

ALBERTA

HISTORICAL SITES

NAME OF SITE	AREA IN ACRES	NEAREST CITY OR TOWN
1 ATHABASCA LANDING	3.02	ATHABASCA
2 BUCKINGHAM HOUSE	5.79	ELK POINT
3 BUGNET PLANTATION	13.00	GUNN
4 CORONATION BDY. MARKER	0.25	CORONATION
5 EARLY MAN SITE	1.00	FT. MACLEOD
6 FORT DE L'ISLE	107.20	MYRNAM
7 FORT GEORGE	1.00	ELK POINT
8 FORT McLEOD	0.66	PEACE RIVER
9 FORT VERMILION	2.00	MARWAYNE
10 FORT VICTORIA	0.80	SMOKY LAKE
11 FORT WHITE EARTH	5.48	SMOKY LAKE
12 FROG LAKE MASSACRE	3.84	ELK POINT
13 HAY LAKES TELEGRAPH STATION	0.89	HAY LAKES
14 INDIAN STONE PILE	3.75	TROCHU
15 MASSACRE BUTTE	1.00	LUNDBRECK
16 OLD WOMEN'S BUFFALO JUMP	8.16	CAYLEY
17 REV. GEORGE McDUGALL	0.46	CALGARY
18 RIBSTONES	2.00	VIKING
19 ROCKY MOUNTAIN HOUSE FORT	2.75	ROCKY MTN. HOUSE
20 SHAW WOOLEN MILL	0.25	CALGARY
21 STANDOFF	0.89	STANDOFF
22 STEPHANSSON	12.00	MARKERVILLE
23 ST. JOSEPH INDUSTRIAL SCHOOL	0.36	OKOTOKS
24 TWELVE FOOT DAVIS	2.10	PEACE RIVER



TECHNICAL

REPORT OF THE DIRECTOR
T. DRINKWATER

The number of notifications issued increased substantially over the previous fiscal year and the acreage patented also showed a decided increase over 1966-67.

NOTIFICATIONS ISSUED DURING FISCAL YEAR

April 1st, 1967 to March 31st, 1968

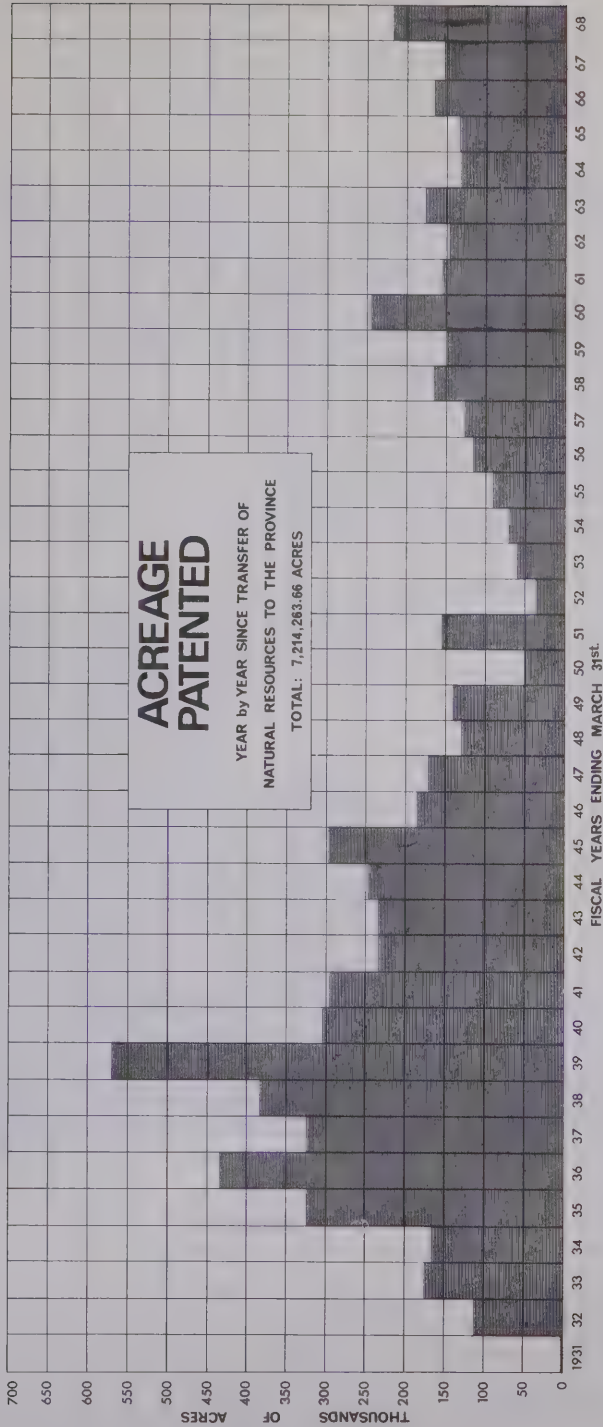
(surface rights only)

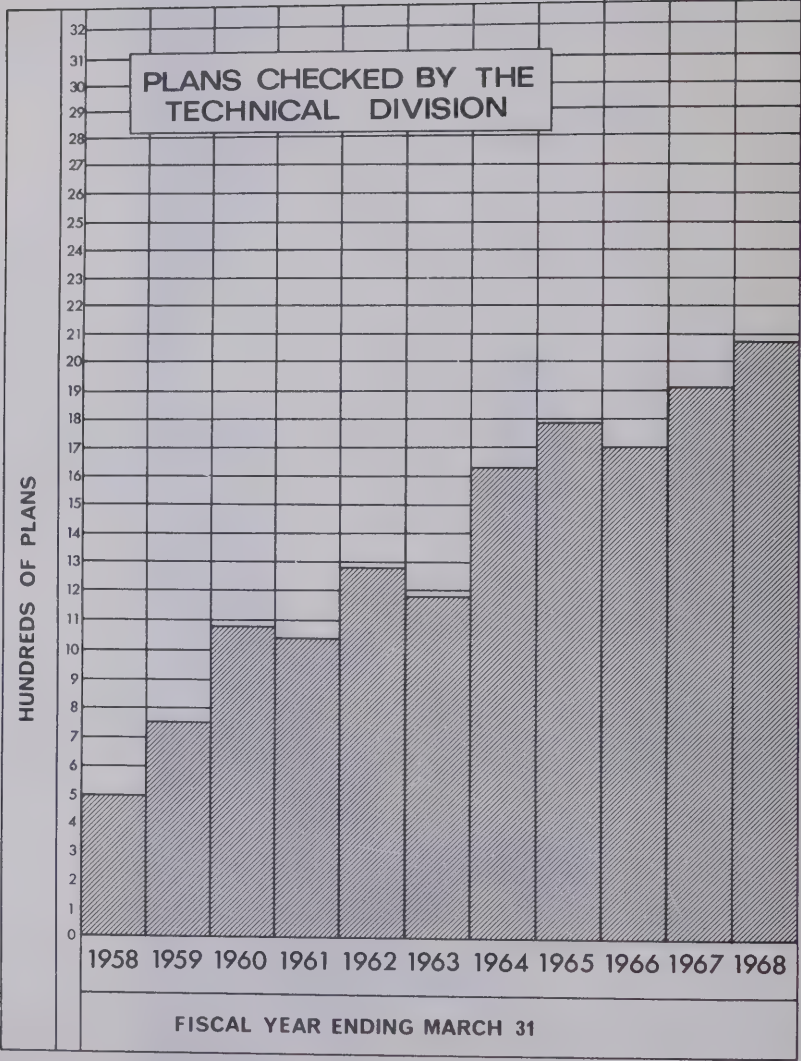
Classification	Notifications	Area
Sales	486	65,998.40 acres
Homestead Sales	275	71,082.86 acres
Homesteads	256	64,258.52 acres
Homestead Lease Loan Sale	45	12,205.79 acres
Notification to Minister of Lands & Forests	24	139,452.15 acres
Exchange of Land	10	3,016.18 acres
Special Grants & Free Grants	5	735.241 acres
Transfer of Administration & Control	4	36.18 acres
Release of habendum clause	2	8.99 acres
	TOTAL 1,107	356,794.311 acres

PLANS OF SURVEY

The number of plans checked and filed in the division again increased substantially over the previous fiscal year. The main increase was in the number of access road and other road plans filed in the division. A summary of the various plans filed is as follows:

Roads	-	228
Wellsites	-	818
Pipelines	-	334
Powerlines	-	106
Access roads	-	421
Subdivisions	-	57
General	-	91
Railways	-	6
Irrigation	-	11
		2,072





TITLES ACQUIRED IN THE NAME OF THE CROWN:

The division acquired title in the name of the Crown to the following:

Eight quarter sections or portions thereof were acquired through exchanges of land.

Two hundred and thirty-six quarter sections or portions thereof were acquired through purchases by the Department of Agriculture under the ARDA program for inclusion in grazing reserves and community pastures, for agricultural redevelopment, for watershed conservation and for recreational purposes.

Portions of two quarter sections were acquired for additions to Provincial Parks. Three former school sites were acquired through transfer from school districts or counties and twelve quarter sections were acquired through transfer covering a former tree farm.

In addition to the above, titles to 1,019 quarter sections were received here for lands which were brought under the Land Titles Act by this office to facilitate registration of mortgages against easements, pipeline agreements board orders, etc. by industrial companies and also to facilitate the registration of subdivision plans.

Microfilming of our records was commenced in this year and 3,000 mineral surface lease plans were microfilmed and placed on aperture cards. This filming was done by Central Registry located in the Land Titles Building. All of our Dominion fiats were also microfilmed and this was done by the Registration Division of this Department.

LAND SETTLEMENT SURVEYS

There were no public lands surveyed for settlement during the 1967-68 fiscal year.

MISCELLANEOUS SURVEYS

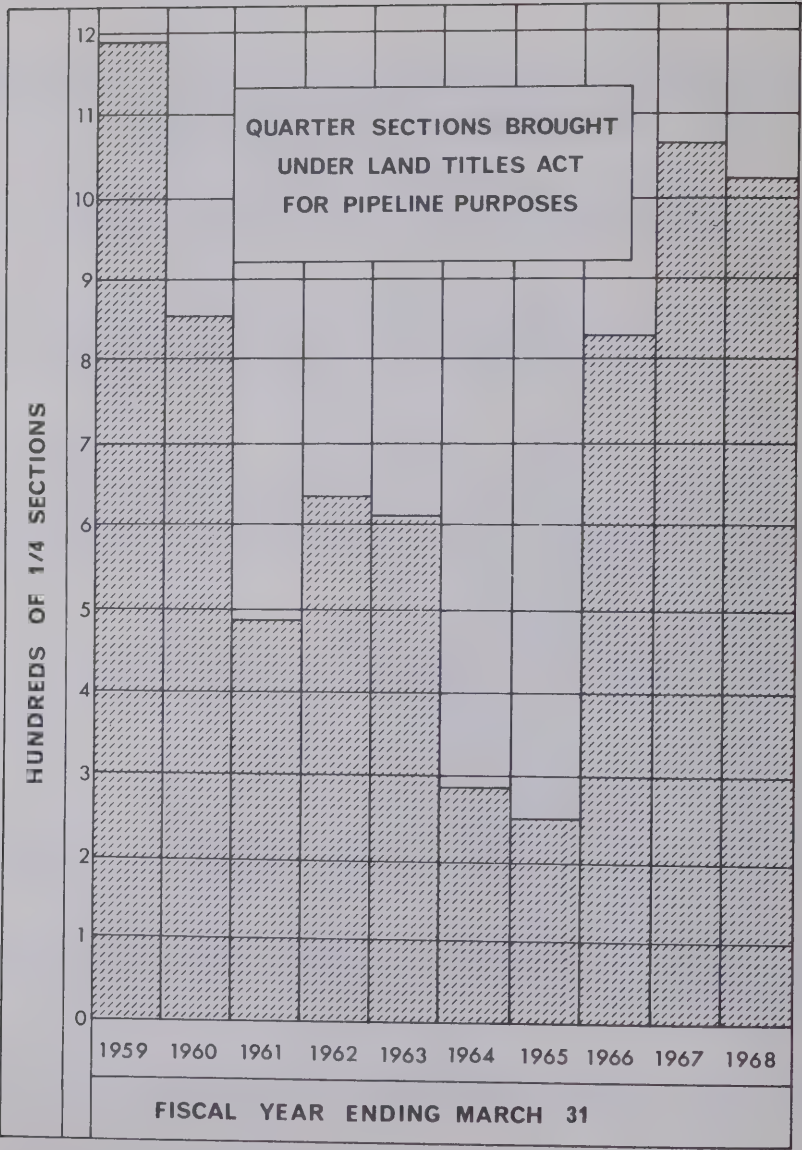
Marianna Lake Subdivision-a highway commercial surveys was carried out at Marianna Lake in sections 19 and 20, township 80, range 13, west 4th meridian to provide three large lots and public reserve adjacent to the McMurray Highway.

Anzac - 29 residential and commercial lots were provided at Anzac in the north half of section 9, township 86, range 7, west 4th meridian, to accommodate existing residences in the area. In addition a nuisance ground was also surveyed adjacent to the area.

Footner Lake - the forestry air strip and facilities and additional large lots adjacent to the air strip for lease purposes were surveyed in township 111, range 19, west 5th meridian at the request of the Alberta Forest Service.

Kempview Subdivision - 23 residential, commercial and public reserve lots were surveyed in township 101, range 23, west 5th meridian at the request of the Lands division to accommodate a demand for building sites in the area.

Kinuso Forestry Site - an addition to the existing forestry headquarters at Kinuso was surveyed to provide the basis for a land purchase from a private owner at the request of the Alberta Forest Service.



Fort McMurray - a portion of River Lots 34 and 35 was surveyed to accommodate a forestry road through privately owned land and to provide a parcel of crown land which could be exchanged with the private owner for the land taken for the forestry road. The plans were subsequently registered and a land exchange effected.

Granlea Reservoir - a parking area was surveyed on private land, Section 27, Township 8, Range 9, West 4th Meridian, to provide an area which could be leased from the private owner for parking of vehicles during fishing in Granlea Reservoir.

Fifteen miles of resurvey was carried out in the Porcupine Hills area of the Crowsnest Forest Reserve to define the boundaries of various grazing allotments in the forest reserve.

Two and one-half miles of section line survey was carried out on the north boundary of sections 31 and 32, township 82, range 2, west 6th meridian where survey monuments had been destroyed through geophysical exploration.

Woolford Provincial Park - a parcel of land was surveyed adjacent to Woolford Provincial Park in order that same could be purchased from the private owner to consolidate the boundaries of the park.

A resurvey of a small area in Elkwater Provincial Park was carried out where it was found that discrepancies had arisen over the survey completed last summer necessitating the movement of some of the survey posts.

Brule Townsite - a start was made on the survey of the former Brule Townsite to accommodate the existing building sites and to survey existing miscellaneous leases in the area. The survey was terminated pending discussions with the Provincial Planning Authorities regarding the alignment of streets, roads, etc.

AERIAL PHOTOGRAPHY

	1966-67	1967-68
Contact prints printed in lab.	161,272	170,227
Rectified prints	6,771	4,229
Enlargements	2,150	4,283
Kelsh dispositives	899	1,775
Multiplex diapositives	537	87
K20 films processed	11	17
K20 prints	1,252	1,585
9½" x 9½" films processed	27	28
9½" x 9½" prints from above films	2,305	2,635

NEW PHOTOGRAPHY

A contract was completed by Capital Air Surveys covering 17,570 square miles of new aerial photography for the Department of Municipal Affairs. This contract was completed and prints of the photography delivered to the Department of Municipal Affairs for assessment purposes. The contract from the previous year which was carried over was again not completed.

TOPOGRAPHIC MAPPING

One thousand two hundred and forty, one inch to one mile mosaics were completed for government use and for resale. One hundred and ninety two were for government use and 1,048 for resale privately and 168 special order mosaics were completed for government agencies covering 8,448 square miles.

Fifty-four flying licences were issued during the fiscal year, a substantial increase over the previous fiscal year.

Sixty-one individual projects were completed on the Department's stereo plotting equipment covering a total of 423,770 acres. The work was primarily done at the request of the Departments of Lands and Forests, Highways, Municipal Affairs and Agriculture. At the end of the fiscal year 18 different projects covering approximately 900,000 acres were on hand to be completed.

CARTOGRAPHIC UNIT

Atlas of Alberta - most of the resources of the unit were concentrated on the Atlas of Alberta during the year and resulted in a 32% completion of the 69% of Atlas material received from compilation at the University of Alberta.

Two mile series mapping - prior to suspension, compilation and interpretation was commenced on 82 0 NE and SE, base construction, interpretation and sketching was completed on 83 I NE, SE, NW, SW, and 83 J SE. Scribing and color separation work was completed on 83A, NE, SE, NW, SW, and 83B NE and SE and are presently waiting to be printed.

Settlement series - 8 four mile sheets showing land tenure were in production during the year, of these, four are ready for printing with current tenure information, 84D, 84K, 84F, 83N, 84C, the pilot map, has been completed to water-coat stage, but requires some modification. The construction of 84J and 83K is well under way.

Planimetric maps - a completely new presentation of the planimetric series maps was designed with revisions to 1967, 83 H 13 and 14 have been completed and are now available.

New 16 mile map - the 16 mile map construction has made progress during the year, and now stands at 90% of completion.

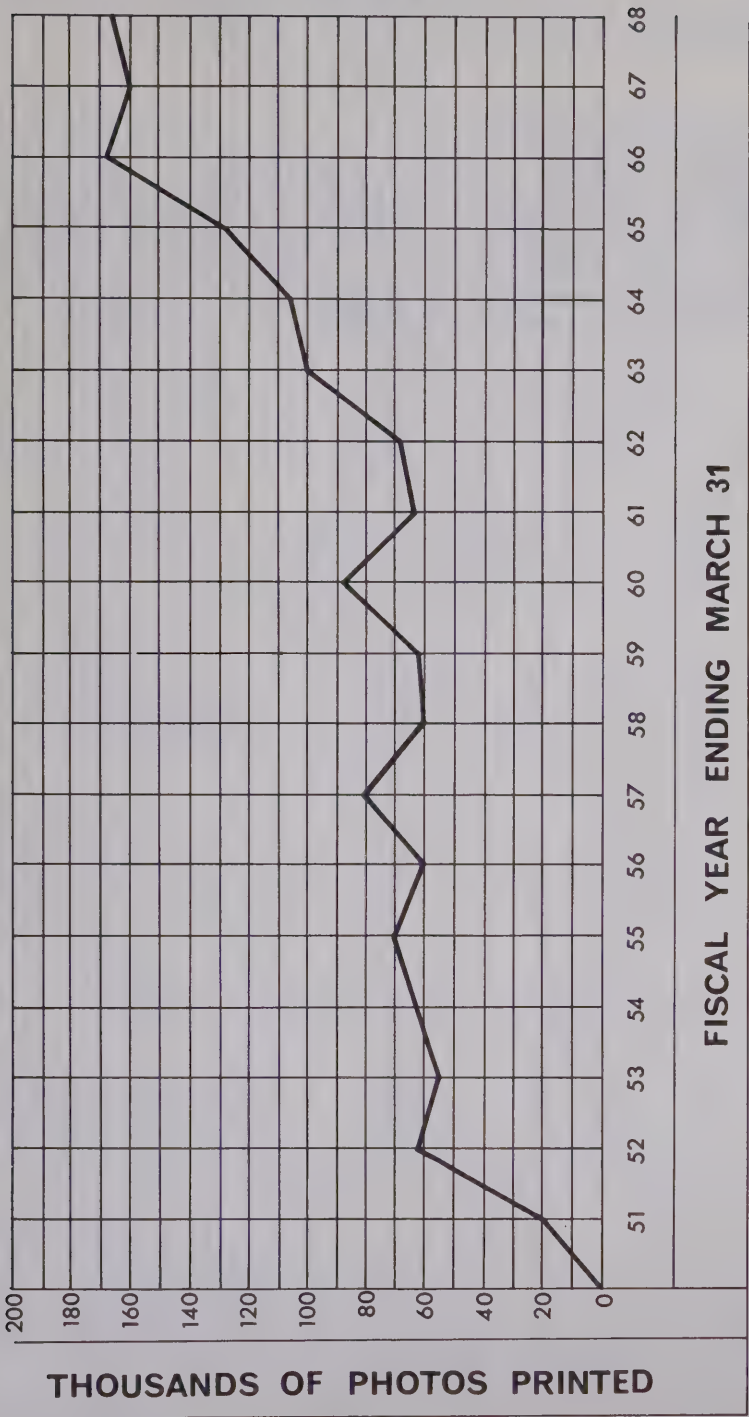
Geological map - a geological map comprising 19 color variations of block 72E was produced for the Research Council of Alberta.

Base maps for Registration Division - 16 two mile map bases were produced for this Division.

Yellow and Green map - this map was revised with the removal of the brown zones and addition of agency boundaries.

Forest Reserve maps - The Crowsnest and Bow River Forest Reserve maps were revised and printed during the year.

Mechanical drafting - five major projects were completed including three plans of rear-deck equipment for fire suppression units.



Publicity - a map of Alberta showing streams and habitat of various game fish was produced and a map of Cypress Hills Park utilizing a new perspective and hill-shading system is now ready for printing.

MAP AND AERIAL PHOTOGRAPH SALES

During the fiscal year sale of aerial photographs, enlargements, etc. amounted to \$51,338.57 and map sales amounted to \$33,643.13. The sales of maps actually increased quite sharply. Under a new policy maps were distributed to provincial government agencies requesting them free of charge. The sales figures for previous years included maps distributed to government agencies and for which charges were made. Even without these figures for the current fiscal year, the sale figure shows an increase of over \$2,000.00.

REGISTRATION

REPORT OF THE REGISTRAR
C.B. KENWAY

	Yearly Total	Daily Average	Increase (+) or Decrease (-) from previous Year	Minimum and Maximum Range Per Day
1. Mail Cage				
Incoming mail (pieces)	173,388	691	+ 5.2	326 - 1,523
Outgoing mail (pieces)	309,737	1,234	- 0.1	213 - 5,074
Total (pieces)	483,125	1,925	+ 1.7	539 - 6,597
Incoming registered (pieces)	3,224	13	- 16.0	2 - 62
Outgoing registered (pieces)	4,608	18	- 35.7	1 - 428
Total (pieces)	7,832	31	- 28.8	3 - 1,048
Cash blotter entries	38,452	153	+ 2.0	66 - 515
Interim receipts issued	3,204	13	+ 1.0	5 - 30
Total	41,660	166	+ 1.9	71 - 815
Cash received (mail)	\$10,135,566.69	\$40,381	+ 4.3	\$6,401 - 204,031
Cash received (counter)	\$ 937,970.52	\$ 3,737	- 23.4	\$ 114 - 47,348
Total	\$11,073,537.21	\$44,118	+ 1.2	\$6,515 - 251,379
2. Filing				
Files (live, storage, microfilm) (Grand Total)	539,510			
Telephone requests	34,785	139	+ 3.7	76 - 267
Marking and attachments	177,799	708	+ 7.9	277 - 1,960
Deferred and special searches	3,941	16	+ 8.5	4 - 29
Deferred and special search files	5,705	23	- 2.1	4 - 44
3. Filing Records				
Files opened	5,292	21	- 12.3	
Files closed	7,468	30	+ 9.4	
Kardex entries	37,587	150	+ 4.7	
Files processed	110,214	439	+ 10.3	
4. Microfilming				
Rolls film exposed	201		- 28.5	
Rolls film checked	201		- 28.5	
5. Records				
Files received	55,280	220	+ 8.5	59 - 2,077
Land searches (internal) pages	21,363	85	+ 19.9	35 - 221
Land searches (commercial) pages	2,148	9	+ 38.7	0 - 42
Register pages transcribed	1,752	7	- 11.0	
Basic entries	17,887		+ 3.4	
6. Surface Rights Plotting				
*Plans opened (Grand Total)	2,489			
Files rec'd in distribution	10,024	40	+ 59.2	0 - 96
<i>*Decrease due to transfer of Section Plans to Regional and Township Plans.</i>				

ACCOUNTS**REPORT OF THE ADMINISTRATIVE ACCOUNTANT***A. McCALLUM*

The statements which form part of this report reflect the collections and expenditures of the department for the year ending March 31, 1968.

REVENUE

Gross receipts from all sources \$11,896,510.85 monies refunded \$1,268,693.00 leaving a total net revenue from all sources of \$10,627,817.85, a decrease from the previous year of \$274,299.30 (see Statements A, B, C & D).

There were 5,658 refunds processed from all sources including Previous Year refunds amounting to \$1,507,716.82. Included in this figure is an amount of \$659,417.91 refunded to the taxing Authority as authorized by "The Grazing Lease Taxation Act", "The Crown Cultivation Leases Act" and "The Tax Recovery Act".

Money held in trust as at March 31, 1968, amounted to \$384,228.40, a breakdown of which is as follows:

Miscellaneous	\$131,674.70
Homestead Compensation Trust	20,337.03
Timber Deposits Trust	230,368.03
Timber Forfeited Money & Reforestation Trust	1,848.64
	\$384,228.40

Accounts Receivable stood at 31,251 accounts, not including Fish & Wildlife Vendors Accounts of approximately 1,363.

Cash entries for the year were 71,565 for which some 67,697 receipts and permits were issued.

The sale of Game Certificates and Game Stamps showed a marked increase as follows:

	1967	1966
Fishing Licences	136,693	137,687
Game Certificates	124,028	106,132
Game Stamps	215,428	183,087

Under the Homestead Lease Loan Act the amount of \$133,418.63 was collected. Collections under this Act as at March 31, 1968 totalled \$1,142,300.08.

In accordance with the various agreements entered into between Canada and the Province, revenues were received as follows:

	Income	Capital
Forestry Agreement	15,858.52	
ARDA Agreement	187,797.63	74,091.21
Department of Transport		163,574.76
Educational Training	87,641.00	
Air Weapons Range Primrose Lake	53,049.98	
Trans Canada Highway Picnic & Camp Site	6,906.16	
Indian Reserve Fire Protection	9,450.20	
	\$360,703.49	\$237,665.97

EXPENDITURE

Expenditure in Income Account for the year under review totalled \$16,485,606.92 which includes Special Warrants amounting to \$2,105,000.00.

Expenditure under Capital Account for the year ending March 31, 1968, totalled \$3,008,481.68.

Firefighting costs for the year were \$2,382,731.84.

In connection with the destruction of pests an amount of \$15,903.31 was disbursed.

Funds disbursed in respect of the developing and maintaining of Provincial Parks in the Province amounted to \$1,987,251.91. There was a further sum of \$358,259.05 disbursed from Capital Account.

Recreational grants for the year under review amounted to \$51,969.07.

Under the Homestead Lease Loan Act, funds totalling \$324,666.33 were disbursed during the current year. This amount now makes the total disbursements under this Act \$1,894,584.16.

Maintenance costs of the Eastern Rockies Forest Conservation Board Agreement, including expenses of the Board, totalled \$80,382.27.

Aircraft Patrol and maintenance operations for the year totalled \$618,903.30.

During the year under review an amount of \$40,645.04 was disbursed in respect of aerial photography.

Trust funds expended during the year under review were as follows:

Miscellaneous General	357.50
Wildlife Damage Insurance Fund	41,364.89
Timber Forfeited Monies	1,346.40
	\$43,068.79

As the Department continues to expand the personnel earnings' record for both salary and wage employees continues to show an increase and for the year under review stood at:

Wages - 2,049	Salaries - 1,371
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For details of expenditure from Income Account see Statements "E" and "F".

STATIONERY AND SUPPLIES

As of November 1, 1967, the Stationery and Supplies Section was transferred to the Accounts Branch.

MAIL AND EXPRESS

	1966-67	1967-68
Express parcels	800	1,003
Mail (registered and parcels)	3,291	3,832
Pamphlets	4,483	3,577
Parcels by bus	156	400
Magazines (3) issues	32,922	36,827
Letters	20,029	9,824
Parcels by Messenger	641	702

REGULATIONS AND TAGS PROCESSED

Bird and Big Game Regulations	188,000	225,000
Big Game tags	148,200	149,200
Angling regulations	198,000	199,000

STATIONERY REQUISITIONS BY BRANCHES

General Administration

Accounts	115	136
Personnel	78	60
Deputy Minister & Publicity	38	92
Lands	393	561
Registration	70	75
Fish and Wildlife	422	522
Technical	70	78
Parks	159	235
Forest Administration	136	119
Forest Protection (Head Office)	196	284
Forest Protection (Divisions)	375	337
Forest Management	71	56
Forest Surveys	79	111
General Public	111	59
Radio Branch	38	57
	2,351	2,782

PRINTING VOLUME

	1966-67	1967-68
Transmitted to Queen's Printer:		
Regulations	658,475	228,200
Books and brochures	20,700	98,272
Forms, licences and general printing	1,955,166	3,864,580
Magazines	26,850	38,600
Envelopes printed	580,312	488,000
Dept. Letterheads printed	406,000	400,000

Processed by this office:

Xerox Masters processed	365	629 (Bruning)
Masters typed	2,246	1,753
Sheets run off	1,414,046	2,198,295

PURCHASE ORDERS INITIATED

Direct Purchase Orders	539	490
Interdept. Commitments	369	452
Purchasing Agency Requisitions	13	8

MISCELLANEOUS SERVICES

Number of newspaper advertisements initiated	64	242
Number of telephone requests initiated	81	92
Processing addressograph	4,313	2,137

The Accounts Branch staff have, as in the past, displayed loyalty and cooperation in the many facets of this Branch's operations, all of which is gratefully acknowledged.

STATEMENT A

STATEMENT OF RECEIPTS FROM ALL SOURCES

FROM APRIL 1, 1967 TO MARCH 31, 1968

	GROSS RECEIPTS	REFUNDS	NET RECEIPTS
Income Account	\$ 8,978,618.06	\$ 973,836.01	\$ 8,004,782.05
Capital Account	1,888,807.94	26,332.36	1,862,475.58
Reimbursement of Previous Year's Expenditure	22,645.21	115.10	22,530.11
Timber Deposits Trust	66,048.10	14,457.00	51,591.10
Homestead Compensation Trust	5,171.78	936.23	4,235.55
Homestead Lease Loan Trust	150,705.16	10,702.74	140,002.42
Miscellaneous Trust	123,920.44	55,424.47	68,495.97
Unapplied Receipts Carried Forward			
Improvements	82,593.54	41,939.41	40,654.13
Suspense	288,000.62	144,949.68	143,050.94
Public Lands Grazing Permits and Reserve Permits	40,000.00	—	40,000.00
Homestead Lease Crop Share	30,000.00	—	30,000.00
Public Lands Grazing Lease Rentals	220,000.00	—	220,000.00
	\$11,896,510.85	\$1,268,693.00	\$10,627,817.85

**STATEMENT OF RECEIPTS - INCOME ACCOUNT
FROM APRIL 1, 1967 TO MARCH 31, 1968**

STATEMENT B

	GROSS RECEIPTS	REFUNDS	NET RECEIPTS
FISHERIES ACCOUNTS			
Fisheries Licences	\$ 273,997.90	\$ 541.30	\$ 273,456.60
Fisheries Miscellaneous	224.78	—	224.78
Fisheries Royalty	14,439.74	—	14,439.74
	\$ 288,662.42	\$ 541.30	\$ 288,121.12
GAME ACCOUNTS			
Game Licences	1,296,937.29	254,105.89	1,042,831.40
Fur Tax	79,629.94	831.59	78,798.35
Game Branch Miscellaneous	6,518.39	199.89	6,318.50
	\$1,383,085.62	\$255,137.37	\$1,127,948.25
LANDS AND GRAZING			
Grazing Leases, Permits, Etc.	1,266,908.74	505,656.19	761,252.55
Hay Permits	9,025.95	2,550.00	6,475.95
Homestead Leases, Crop Share	236,109.43	81,101.02	155,008.41
Provincial Land Sales Interest	141,797.69	128.36	141,669.33
Cultivation Leases, Permits	183,629.44	2,631.24	180,998.20
Right of Entry	641,675.65	11,012.72	630,662.93
Miscellaneous Leases	146,754.62	8,460.90	138,293.72
Public Lands Sundry Revenue	148,292.09	21,332.97	126,959.12
Sand & Gravel Leases, Permits	186,985.80	8,388.31	178,547.49
Land Patent Miscellaneous	994.92	1.80	993.12
	\$2,962,124.33	\$641,263.51	\$2,320,860.82
TIMBER ACCOUNTS	\$3,231,517.83	\$ 61,584.37	\$3,169,933.46
EAST SLOPE SURFACE RIGHTS	\$ 347,473.52	\$ 9,825.91	\$ 337,647.61
PARKS PERMITS, FEES, RENTALS	\$ 69,727.56	\$ 155.88	\$ 69,571.68
A.R.D.A. CLAIMS PROCESSED THROUGH DEPT. OF AGRICULTURE APRIL 1/67 THROUGH MARCH 31/68			
Forest Surveys	47,874.00	—	47,874.00
Forest Management	4,441.78	—	4,441.78
Fish & Wildlife	69,008.20	—	69,008.20
Provincial Parks	66,473.65	—	66,473.65
	\$ 187,797.63		\$ 187,797.63
MISCELLANEOUS			
Administration Sundry Revenue	96,945.00	2,740.38	94,204.62
Maps & Plans	33,909.44	266.31	33,643.13
Aircraft Landing Fees	7,646.00	792.75	6,853.25
Sale of Aerial Photographic Survey Maps	51,432.07	93.50	51,338.57
Reimbursement re: Forest Technology School	15,858.52	—	15,858.52
Dominion-Provincial Agreement re: Air Weapons Range Primrose Lake	53,049.98	—	53,049.98
Reimbursement of Salaries & Expenses	10,676.23	854.00	9,822.23
Reimb. Dept. of Education Training Program	87,641.00	—	87,641.00
Services & Supplies to Staff	55,715.82	11.00	55,704.82
Rentals (House)	78,998.73	569.73	78,429.00
Indian Reserve Fire Protection Agreement	9,450.20	—	9,450.20
Trans Canada Hwy. & Picnic Area Agreement	6,906.16	—	6,906.16
	\$ 476,348.15	\$ 5,327.67	\$ 471,020.48
GRAND TOTALS	\$8,978,618.06	\$973,836.01	\$8,004,782.05

STATEMENT C

STATEMENT OF RECEIPTS - CAPITAL ACCOUNT
FROM APRIL 1, 1967 TO MARCH 31, 1968

	GROSS RECEIPTS	REFUNDS	NET RECEIPTS
Clearing and Breaking Projects	\$ 16,080.50	\$ 20.19	\$ 16,060.31
Public Land Sales Principal	969,541.38	11,714.78	957,826.60
Homestead Sales Principal	662,470.67	14,597.39	647,873.28
Land Utilization Advances	3,049.42	—	3,049.42
Dominion-Provincial Agreement re: Forestry	—	—	—
Dominion Government Grant re: Wabasca Airport	46,459.81	—	46,459.81
Dominion Government Grant re: Footner Lake Airport	117,114.95	—	117,114.95
A.R.D.A. Claims Processed Through Dept. of Agriculture April 1/67 to March 31/68			
Provincial Parks	33,273.51	—	33,273.51
Lands Branch	40,817.70	—	40,817.70
	74,091.21	—	74,091.21
 TOTAL CAPITAL ACCOUNT	 \$1,888,807.94	 \$26,332.36	 \$1,862,475.58

STATEMENT D

**STATEMENT OF RECEIPT BY BRANCHES
FROM APRIL 1, 1967 TO MARCH 31, 1968**

FISCAL YEAR ENDING:

	March 31/65	March 31/66	March 31/67	March 31/68
INCOME ACCOUNT				
Fisheries Branch	\$ 258,024.11	\$ 261,793.37	\$ 280,781.78	\$ 288,121.12
Game Branch	783,063.69	773,527.78	810,352.65	1,127,948.25
Lands & Grazing	1,812,170.93	1,894,924.48	2,104,548.98	2,320,860.82
Timber Branch	3,097,601.60	2,748,317.47	3,215,331.60	3,169,933.46
East Slope Surface Rights	477,648.89	428,517.11	316,443.89	337,647.61
Miscellaneous	1,440,276.32	1,277,057.30	1,326,888.77	471,020.48
Provincial Parks	56,659.55	57,920.20	62,404.39	69,571.68
ARDA Claims processed through Department of Agriculture	—	71,597.93	105,972.02	187,797.63
Claims processed through Department of Education	—	—	—	31,881.00
Claims re: Technical and Vocational Training Agreement deposited by Dept. of Agric.	—	—	90,847.85	—
CAPITAL ACCOUNT				
Land Sales Principal	832,502.94	852,960.16	993,640.94	957,826.60
Homestead Sales Principal	263,427.96	328,904.58	543,868.40	647,873.28
Clearing & Breaking Projects	36,513.78	34,085.43	24,479.64	16,060.31
Reimbursement by Dominion Government re: Forest Agreement	258,448.73	210,123.98	177,108.02	—
Land Utilization Advances	—	1,877.94	7,074.45	3,049.42
Dominion Government Grant re: Wabasca Airport	—	—	—	46,459.81
Dominion Government Grant re: Footner Lake Airport	—	—	—	117,114.95
Dominion Government Grant re: Ft. Chipewyan Airport	—	—	100,000.00	—
ARDA Claims processed through Department of Agriculture	—	—	—	74,091.21
Transfer of land to Dept. of Public Works for Village of Slave Lake	—	2,674.50	—	—
Transferred to other departments	35,267.92	8,583.50	6,778.14	22,530.11
Timber Deposits Trust	110,807.00	44,362.00	51,290.00	51,591.10
Homestead Compensation Trust	2,313.03	3,698.29	1,502.08	4,235.55
Homestead Lease Loan Trust	122,121.95	143,093.91	141,835.26	140,002.42
Miscellaneous Trust	58,962.40	30,307.75	104,431.59	68,495.97
Unapplied Receipts carried forward	346,278.92	346,735.65	436,536.70	473,705.07
Parks Board Trust	2,352.06	—	—	—
	\$9,994,441.78	\$9,521,063.33	\$10,902,117.15	\$10,627,817.85

STATEMENT F

STATEMENT OF DISBURSEMENTS BY BRANCHES
FROM APRIL 1, 1963 TO MARCH 31, 1968

FISCAL YEAR ENDING

INCOME

	March 31/64	March 31/65	March 31/66	March 31/67	March 31/68
1801 Minister's Office	\$ 17,993.03	\$ 21,988.80	\$ 23,526.74	\$ 20,551.14	\$ 25,386.66
1802 General Administration	320,844.63	341,304.03	366,506.18	389,716.44	452,076.04
1803 Advisory Board & Committees	1,099.48	997.89	381.15	511.28	819.47
1804 Technical Division	347,607.26	382,207.58	515,723.68	573,258.13	526,243.94
1805 Registration Division	130,383.91	127,835.67	143,785.99	155,169.05	179,985.47
1815 Alberta Forest Service - Forest Administration Branch	83,469.54	2,035,512.18	2,245,552.52	2,377,315.12	2,797,285.72
1816 Alberta Forest Service - Forest Management Branch	392,594.42	464,720.89	578,054.92	736,811.95	795,613.56
1817 Alberta Forest Service - Rocky Mountain Forest Reserve	902,449.95	—	—	—	—
1817 Quota Reforestation	—	—	—	—	287,915.69
1819 Eastern Rockies Forest Conservation Board	57,076.84	62,950.51	67,580.59	71,795.55	80,382.27
1821 Alberta Forest Service - Forest Protection Branch	3,255,425.49	2,683,009.13	2,696,613.89	2,833,724.13	2,394,111.41
1823 Forest & Prairie Fires Suppression	650,540.27	459,039.24	602,903.79	1,548,034.82	2,382,731.84
1824 Alberta Forest Service - Forest Surveys Branch	321,918.11	308,254.54	348,828.43	356,171.85	470,068.35
1825 Alberta Forest Service - Aircraft Operations	447,310.69	592,675.44	693,088.14	661,689.90	618,903.30
1826 Alberta Forest Service - Radio Branch	390,326.56	409,347.74	456,940.52	453,788.63	511,565.13
1828 Alberta Forest Service - Forestry Training School	54,959.24	88,685.66	142,937.28	237,956.77	226,504.17
1829 Junior Forest Rangers	—	—	25,355.07	33,352.77	43,372.12
1835 Fish & Wildlife Division	910,471.63	1,007,949.27	1,092,200.21	1,307,432.49	1,541,022.76
1836 Destruction of Pests	1,948.58	8,561.04	25,518.86	22,620.34	15,903.31
1845 Lands Division	765,388.27	889,640.07	861,861.57	943,694.37	1,096,494.73
1846 Provincial Parks	871,063.14	1,040,159.73	1,287,838.52	1,749,392.82	1,987,251.91
1847 Rural Recreational Grants	—	67,932.20	22,521.32	89,726.50	51,969.07
TOTAL INCOME ACCOUNT	\$9,922,871.04	\$10,992,791.61	\$12,197,719.37	\$14,562,714.05	\$16,485,606.92

CAPITAL:

1881 Aerial Photography & Forest Inventory	\$ 15,885.92	\$ 16,849.10	\$ 18,984.40	\$ 13,324.57	\$ 40,645.04
1882 Forestry Dominion-Provincial Access Roads Agreement and SW 47, 55/61-62	815,090.26	683,047.85	652,268.82	653,725.25	944,180.65
1883 Construction of camp grounds & picnic sites in Provincial Parks - SW 2, 54/61-62	29,387.60	—	—	—	—
1883 Land Purchase	—	1,033.46	196,638.15	141,803.59	37,238.12
1885 Lands & Grazing Development	—	—	—	—	119,424.27
1886 Parks Development	—	—	—	—	261,846.57
TOTAL CAPITAL ACCOUNT	\$ 860,363.78	\$ 700,930.41	\$ 867,891.37	\$ 808,853.41	\$ 1,403,334.65

EDUCATION AND INFORMATION**REPORT OF THE PUBLICITY OFFICER***W.A. WEST*

Effective November 1st, 1967, the Department of Lands and Forests formed the Education and Information Branch within its departmental structure. The new branch encompasses the old office of the Publicity Officer, an Illustration Section, Departmental Library and the Hunter Training Program.

During the fiscal year in question, the film "Right to Burn", dealing with settlement fires, was completed, in color, and was made available to the general public. Another film, also in color, on training Natives of the Province in forest fire techniques was also filmed. The script and sound is to be added during 1969. A general hunting film for moose in Northern Alberta was started and is 45% complete. Additional shooting will be done during the fall of 1968 with sound track being added in 1969. The film will be ready for distribution during the summer of 1969.

Various publications were produced by this Branch and included "Moose Hunting in Alberta" brochure, "Fishing in Alberta", "Brush Burning by Farmers", "Provincial Parks Guide Book", "Rocky Mountain Forest Reserve Map" folders and "Junior Forest Ranger" brochures. Numerous other publications were re-printed.

The department's magazine, "Alberta, Lands-Forests-Parks-Wildlife" continues to grow on its free subscription basis and as of March 31st, 1968, approximately 13,000 were distributed quarterly. This increased by approximately 1,000 per issue over the previous year.

During the latter part of 1967, upon the formation of the Branch, the Branch became responsible for the central information telephone number and information clearing area for the department. Approximately 45 calls per day are handled by the Branch for redirection to appropriate areas within the department.

LIBRARY

From April 1 to October 31, 1967, the library was operated by the Alberta Forest Service for the purpose of collecting, cataloguing and classifying forestry literature, and general publications relative to the subject of forestry. During this period the library was moved to larger quarters on the main floor of the Natural Resources Building.

On November 1, 1967, the Forestry Library became the Department of Lands and Forests Library, within the administration of the new Education and Information Branch. Many new services were added to the original one of handling books and publications. These additions included the department's 16mm film library of 92 films, and the hunter training film library of 37 films, making a total of 129 films; the transfer to the library of all photographic equipment, including cameras, camera accessories, projectors, screens and miscellaneous photographic items; and, the ordering of all subscriptions and memberships for all divisions and branches of the department.

During the period under review, 943 films were loaned, with a total of 29,414 viewers.

HUNTER TRAINING
STUDENT COURSES
 1st April 1967 - 31st March, 1968

LOCATION	TOTAL # COURSES	SUCCESSFUL STUDENTS	UNSUC. STUDENTS
Ashmont	1	15	1
Andrew	1	20	1
Barrhead	1	40	--
Beaverlodge	1	23	3
Blue Ridge & Greencourt	1	21	1
Calgary, Lethbridge & Taber	15	281	52
Camrose	3	49	--
Carstairs	1	34	--
Claresholm	1	16	--
Cochrane	1	19	2
Cold Lake & Grande Centre	4	61	--
Del Bonita	1	2	--
Delburne	1	12	2
Devon	1	1	--
Drayton Valley & Lodgepole	1	41	3
Drumheller	1	15	--
Edmonton & Namao	25	535	58
Edson	2	17	2
Ferintosh	1	20	--
Gleichen	1	3	3
Grande Prairie	3	121	16
Hanna	1	10	--
High Prairie	2	29	--
Hobbema	1	6	2
Hussar	1	20	4
Huxley	1	16	5
Innisfail, Dickson & Kevisville	3	66	1
Lacombe	4	85	2
Mayerthorpe	2	29	--
Peace River	2	35	--
Penhold	3	34	1
Provost	2	15	2
Red Deer	5	108	10
Rockyford	1	21	--
Smoky Lake	1	23	--
Spirit River	1	14	--
St. Paul	1	4	--
Standard	1	15	2
Stauffer	1	45	--
Stavely	1	6	4
Sundre	2	20	--
Sylvan Lake	1	7	1
Vegreville	1	1	--
Vulcan	2	11	--
Whitelaw	1	12	--
	108	1,978	178

INSTRUCTORS COURSES
1st April, 1967 - 31st March, 1968

LOCATION	TOTAL # COURSES	SUCCESSFUL INSTRUCTORS	UNSUC. INST.
Brooks	1	30	5
Cold Lake	1	10	--
Del Bonita	1	18	2
Devon	1	13	1
Edmonton	1	27	1
Grande Prairie	1	43	10
Jasper	1	11	4
Penhold	1	15	--
Provost	1	13	3
Rocky Mountain House	1	37	7
Rycroft	1	13	14
Smoky Lake	1	11	3
St., Paul	1	11	--
Swan Hills	1	13	1
Vegreville & Clandonald	1	14	--
Vermilion	1	24	1
Wetaskiwin	1	12	--
	17	315	52

PERSONNEL**REPORT OF THE PERSONNEL OFFICER***R.J. CLARK*

Due to expanding programs within the department, the personnel function continued at a high pace during the 1967-68 fiscal year.

During the year, the Central Personnel Office contacted each department and the consensus was that the present system appeared to be working well and they did not wish to lose the uniformity established by a Central Personnel Organization. However, the gradual trend to the decentralization of the personnel function was considered to be the next logical step in the overall personnel program.

Partial centralization became an actuality when the administration of attendance and leave was given to the departments. Before other areas could be decentralized, a change in the Public Service Act had to be made. It is expected that recruitment and selection would be delegated on a partial basis to the department. In this area, the Recruitment and Selection Branch would be involved with all competitions open to the public as well as the recruitment of employees in the beginning level classes.

RECRUITMENT & SELECTION

This continued to be a very busy area in 1967-68. Two hundred ninety-four competitions were conducted to fill various positions in the department. Of these, 147 positions were filled by promotional competition. One hundred ninety-three new employees commenced employment with the department during this same period.

Recruiting teams visited a number of universities and technical schools once again this year. The forestry schools at the Universities of New Brunswick and British Columbia were visited and the response was favourable. Graduates were employed from both.

Recruiting at the Maritime Ranger School (Fredericton), Ontario Forestry Training School (Dorset), Saskatchewan Institute of Applied Arts & Science (Saskatoon) and the Northern Alberta Institute of Technology (Edmonton) resulted in a large number of personnel qualifying for employment as Forestry Officers, Fish & Wildlife Officers, and Fish & Wildlife Technicians. The interest shown by graduates in Resource Management from outside the province appears to be increasing each year.

In addition to the above schools, contact was made at the Technical School in Castlegar, British Columbia, where the first Forest Technology graduates were to graduate in May, 1968. Several students appeared interested in working for the Department.

The Junior Forest Ranger Program continued to maintain a high degree of interest among high school students. Our advertising was wider this year which resulted in approximately 400 applications for employment. Camps were located in the Crowsnest, Rocky Mountain House, Edson and Grande Prairie Forests. Sixty young men 17 and 18 years of age were employed. In order to give all young men an opportunity for employment, selections were made from all areas of the province.

Summer assistants were recruited as in previous years. In many cases, we worked directly with the Student Placement Offices at universities and technical schools. Forestry students attending N.A.I.T. were given preference wherever possible.

One hundred fifty-seven employees left the department in 1967-68. Of these, six retired from the service and six died. Of the six deaths, two occurred while the employees were on duty.

CLASSIFICATION & PAY

The increased workload and extension of programs resulted in an increase in total establishment throughout the department. New positions* were created in General Administration, Registration, Forestry, Fish & Wildlife, Lands and Parks.

Several classification reviews were made in 1967-68, with some minor changes. The clerical resurvey which involved approximately 3,200 positions was completed in the fall of 1967. This resulted in a number of classification changes within the department. The resurvey of the Technical and Engineering classes will resume immediately. This is expected to be finalized in the late fall of 1968 or early 1969.

No classification appeals were received during 1967-68.

EMPLOYEE RELATIONS

A new agreement was signed by the Government and the Civil Service Association of Alberta which will expire on December 31, 1968. With the signing of the agreement, a general salary increase became effective October 1, 1967. The increase in salary averaged approximately 7%.

In addition to a salary increase, the main features of the Agreement are: (a) Voluntary Group Life Insurance Plan which will become effective on September 1, 1968. The Government will subsidize each employee enrolled in the plan 80c; (b) An additional 27 classes have been approved for which overtime may be allowed.

The Civil Service Association requested that the Government implement a form of the Rand Formula for association dues. The Rand Formula is used in many union organizations whereby all members of the bargaining unit are assessed a service charge if they are not members of the association. This suggestion was opposed by the Government.

TRAINING

Management training continued during 1967-68. During the year, courses were conducted in Grande Prairie, Lethbridge, Calgary and Edmonton.

The department continued to subsidize employees endeavoring to upgrade their qualifications for their present jobs or possibly other positions in the organization. In 1967-68, 64 employees received financial assistance in our Training Subsidization Program.

Four employees were away on educational leave.

Arrangements were made with the Director of Management Development and Training to conduct a special management course at Hinton in May, 1968. If that course is successful, we expect to provide management training to all supervisory personnel in the future.

MINISTER'S OFFICE

- 2 1 Minister
- 1 Secretary

DEPUTY MINISTER'S OFFICE

- 1 Deputy Minister
- 1 Solicitor
- 2 Personnel Officers
- 1 Information Officer
- 18 1 Artist
- 1 Conservation Training Officer
- 5 Clerk Stenographers
- 4 Clerk Typists
- 2 Clerks

ACCOUNTS BRANCH

- 4 Accountants
- 34 Clerks
- 2 Clerk Stenographers
- 19 Clerk Typists
- 67 1 Stockkeeper
- 2 Stores Clerks
- 1 Duplicating Equipment Operator
- 1 Comptometer Operator
- 3 Bookkeeping Machine Operators

TECHNICAL DIVISION

- 3 Technical Officers
- 1 Land Surveyor
- 24 Technical Assistants
- 8 Photogrammetrists
- 3 Duplicating Equipment Operators
- 64 2 Clerk Stenographers
- 4 Clerk Typists
- 4 Clerks
- 8 Aerial Photographic Processors
- 7 Technical Aides

REGISTRATION DIVISION

- 1 Administrative Officer
- 1 Clerk Stenographer
- 2 Technical Assistants
- 40 3 Technical Aides
- 32 Clerks
- 1 Automotive Equipment Operator

FORESTRY DIVISION

Forest Administration Branch

- 1 Forestry Director
- 1 Administrative Officer
- 37 Foresters
- 26 Clerks
- 9 Clerk Stenographers
- 13 Automotive Mechanics
- 11 Senior Lookouts (Year Round)
- 14 Lookouts (Year Round)
- 540 146 Lookouts (Seasonal)
- 17 Clerk Typists
- 18 Automotive Equipment Operators
- 10 Road Foremen
- 15 Radio Operators
- 10 Carpenters
- 104 Forestry Officers I
- 96 Forestry Officers II & III
- 1 Stockkeeper
- 1 Timber Scaler
- 4 Airport Keepers
- 10 Forestry Warehouse Men

Forest Management Branch

- 10 Foresters
- 1 Administrative Officer
- 1 Timber Scaling Supervisor
- 1 Forestry Lands Use Co-ordinator
- 38 4 Timber Auditors
- 9 Clerks
- 4 Clerk Stenographers
- 2 Technical Aides
- 6 Clerk Typists

Forest Protection

- 5 Foresters
- 2 Maintenance Supervisors
- 3 Aircraft Dispatchers
- 4 Carpenters
- 2 Electricians
- 2 Plumbers
- 1 Labourer
- 1 Painter
- 1 Fire Control Dispatcher
- 43 2 Stockkeepers
- 1 Fire Weather Officer
- 1 Sign Painter & Designer
- 1 Forest Equipment Artisan
- 1 Forestry Road Superintendent
- 1 Engineer II
- 1 Forestry Equipment Supervisor

Forest Protection Contd.

- 4 Technical Assistants
- 1 Technical Aide
- 4 Clerks
- 3 Clerk Stenographers
- 2 Clerk Typists

- 2 Game Hatchery Superintendents
- 9 Game Hatchery Attendants
- 1 Laboratory Technician
- 35 Clerk Stenographers
- 21 Clerk Typists
- 1 Clerk

Forest Surveys Branch

- 12 Foresters
- 1 Technical Officer
- 23 Technical Assistants
- 50 3 Clerk Typists
- 1 Clerk Stenographer
- 4 Clerks
- 6 Technical Aides

EASTERN ROCKIES CONSERVATION BOARD

- 2 Foresters III
- 2 Technical Assistants I
- 1 Clerk Stenographer
- 1 Clerk Typist

Radio Branch

- 1 Communications Liaison Officer
- 3 Radio Operators
- 11 3 Engine Generator Technicians
- 2 Communication Technicians
- 2 Clerk Typists

LANDS DIVISION

- 1 Public Lands Director
- 6 Administrative Officers
- 21 Public Lands Appraisers
- 41 Clerks
- 129 41 Clerk Typists
- 8 Clerk Stenographers
- 2 Agrologists
- 9 Grazing Reserve Attendants

Forestry Training School

- 1 Forestry Training School Superintendent
- 8 Instructors
- 1 Stockkeeper
- 14 2 Clerk Stenographers
- 1 Clerk Typist
- 1 Clerk

PROVINCIAL PARKS DIVISION

- 1 Parks Director
- 1 Parks Planner Supervisor
- 4 Park Supervisors
- 1 Parks Manager
- 3 Parks Planners
- 1 Administrative Officer
- 19 Parks Officers I
- 10 Parks Officers II
- 1 Parks Co-ordinator
- 6 Automotive Equipment Operators
- 4 Carpenters
- 2 Clerks
- 4 Clerk Typists
- 4 Clerk Stenographers
- 6 Technical Assistants
- 3 Automotive Mechanics
- 3 Maintenance Workers
- 1 Sign Painter & Designer
- 1 Painter
- 1 Stockkeeper
- 1 Engineer II
- 1 Geographer II
- 1 Landscape Architect I
- 1 Maintenance Supervisor
- 1 Electrician

FISH & WILDLIFE DIVISION

- 1 Fish & Wildlife Director
- 1 Fish & Wildlife Administrator
- 1 Administrative Officer
- 12 Fish & Wildlife Officers I
- 45 Fish & Wildlife Officers II
- 7 Fish & Wildlife Officers III
- 1 Fish & Wildlife Officer IV
- 3 Fish & Wildlife Technicians
- 2 Technical Aides
- 1 Chief Fish Culturist
- 168 4 Biologists I
- 14 Biologists II
- 2 Biologists III
- 2 Biologists IV
- 3 Research Biologists

TOTAL - 1,271

